Operating Instructions

TV
- Spheros R 37
- Spheros R 32
- Spheros R 26
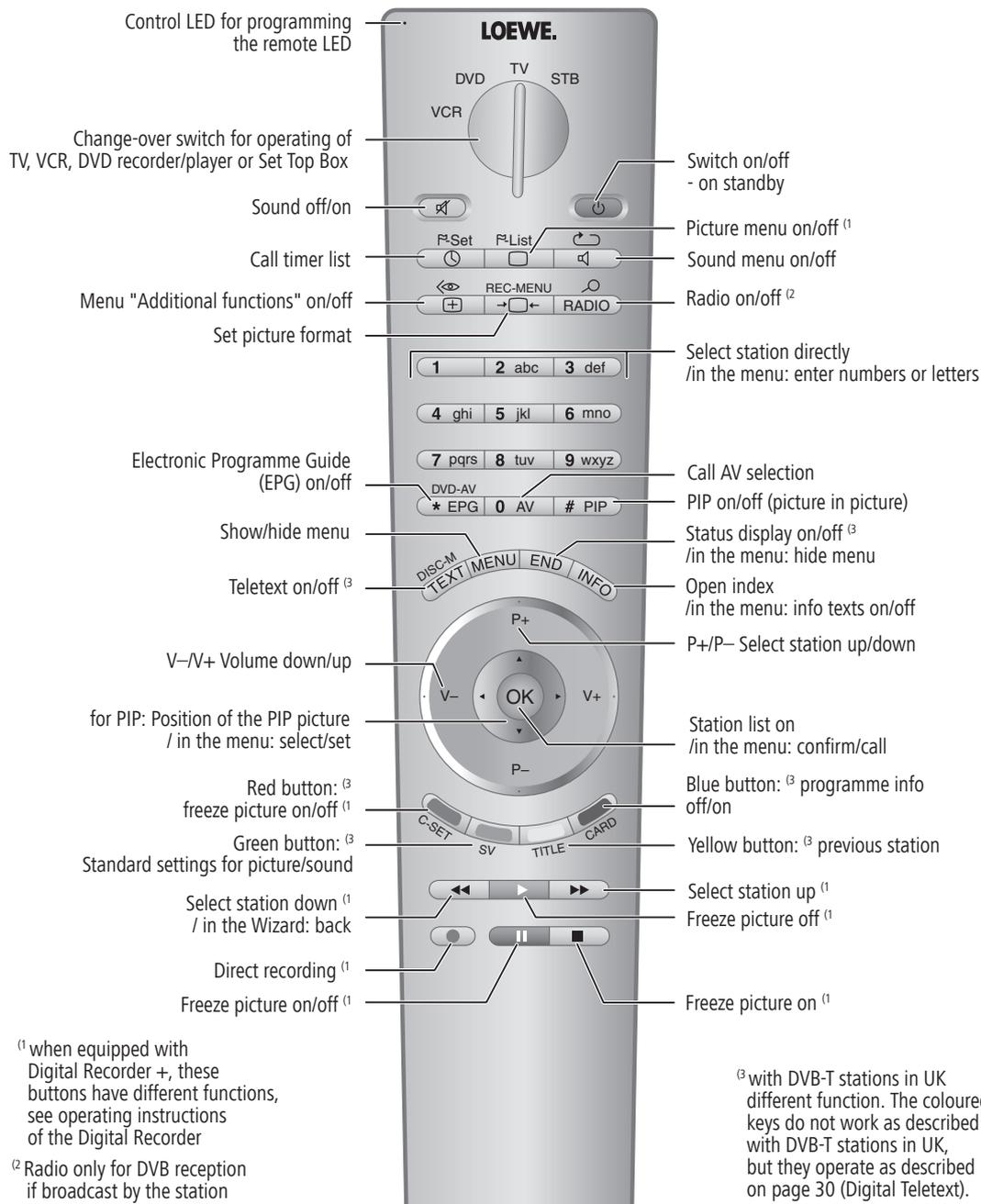
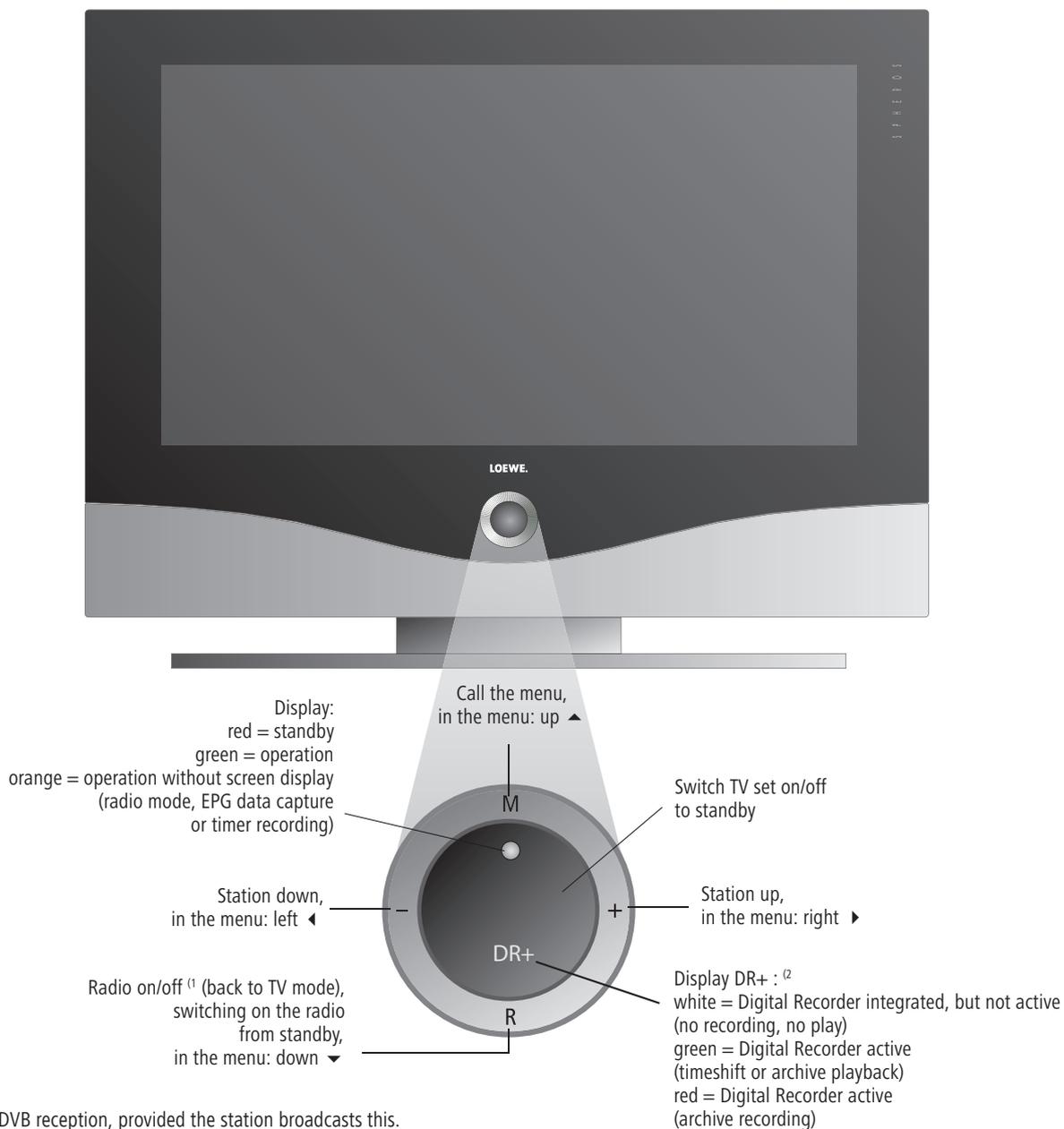**LOEWE.**

Contents

Remote control - TV functions

LOEWE.

Control LED for programming the remote LED

DVD — TV — STB

VCR

Change-over switch for operating of TV, VCR, DVD recorder/player or Set Top Box

Sound off/on

Switch on/off - on standby

Picture menu on/off [1]

Call timer list

Sound menu on/off

Menu "Additional functions" on/off

REC-MENU

Radio on/off [2]

Set picture format

1 | 2 abc | 3 def

Select station directly /in the menu: enter numbers or letters

4 ghi | 5 jkl | 6 mno

7 pqrs | 8 tuv | 9 wxyz

Electronic Programme Guide (EPG) on/off

DVD-AV

* EPG | 0 AV | # PIP

Call AV selection

PIP on/off (picture in picture)

Show/hide menu

DISC-M TEXT MENU END INFO

Status display on/off [3] /in the menu: hide menu

Teletext on/off [3]

Open index /in the menu: info texts on/off

P+

V–/V+ Volume down/up

P+/P– Select station up/down

V– OK V+

for PIP: Position of the PIP picture / in the menu: select/set

P–

Station list on /in the menu: confirm/call

Red button: [3] freeze picture on/off [1]

Blue button: [3] programme info off/on

C-SET SV TITLE CARD

Green button: [3] Standard settings for picture/sound

Yellow button: [3] previous station

Select station down [1] / in the Wizard: back

◄◄ ► ►►

Select station up [1]

Freeze picture off [1]

Direct recording [1]

● ‖ ■

Freeze picture on/off [1]

Freeze picture on [1]

[1] when equipped with Digital Recorder +, these buttons have different functions, see operating instructions of the Digital Recorder

[2] Radio only for DVB reception if broadcast by the station

[3] with DVB-T stations in UK different function. The coloured keys do not work as described with DVB-T stations in UK, but they operate as described on page 30 (Digital Teletext).

Control units Spheros R 26 and R 32

Display:
red = standby
green = operation
orange = operation without screen display
(radio mode, EPG data capture
or timer recording)

Call the menu,
in the menu: up ▲

M

Switch TV set on/off
to standby

Station down,
in the menu: left ◄

─

+

Station up,
in the menu: right ▶

DR+

Radio on/off [1] (back to TV mode),
switching on the radio
from standby,
in the menu: down ▼

R

Display DR+ : [2]
white = Digital Recorder integrated, but not active
(no recording, no play)
green = Digital Recorder active
(timeshift or archive playback)
red = Digital Recorder active
(archive recording)

[1] Radio only for DVB reception, provided the station broadcasts this.
Otherwise, switch over to an audio input.

[2] Only for sets with a Digital Recorder

Control unit Spheros R 37

Display:
red: standby
green: operation
green and red:
timer recording,
EPG data capture
or radio mode

Common Interface
(CI-Slot)

Headphones connection

S-VHS connection (AVS)
(i.e. for camcorders)

Video input (AVS)

Audio input right

Audio input left

Call the menu,
in the menu: up/down ▲ ▼

Station down,
in the menu: left ◀

Station up,
in the menu: right ▶

Connections to rear panel - Spheros R 26

Common interface (CI-Slot)

Headphone connection

S-VHS connection (AVS) (i.e. for camcorders)

Video input (AVS)

Audio input right

Audio input left

LOEWE.

SPHEROS R 26

Mains switch

Center audio input (analogue)

Audio input left/right (analogue)

Audio output left/right (analogue)

Satellite connection socket [1]

Antenna/cable analogue/digital

Euro-AV-socket1

Euro-AV-socket2

Component video inputs (Cb/Pb–Cr/Pr–Y)

HDMI (DVI) input

Digital audio output

Digital audio input

Socket for power cable

Service socket

VGA/XGA input

[1] Set-specific equipment and retrofitting options for PIP and satellite tuners, see pages 46 and 47.

Connections to rear panel - Spheros R 32 and R 37

Common Interface (CI-Slot)

Headphones connection

S-VHS connection (AVS) (i.e. for camcorders)

Video input (AVS)

Audio input right

Audio input left

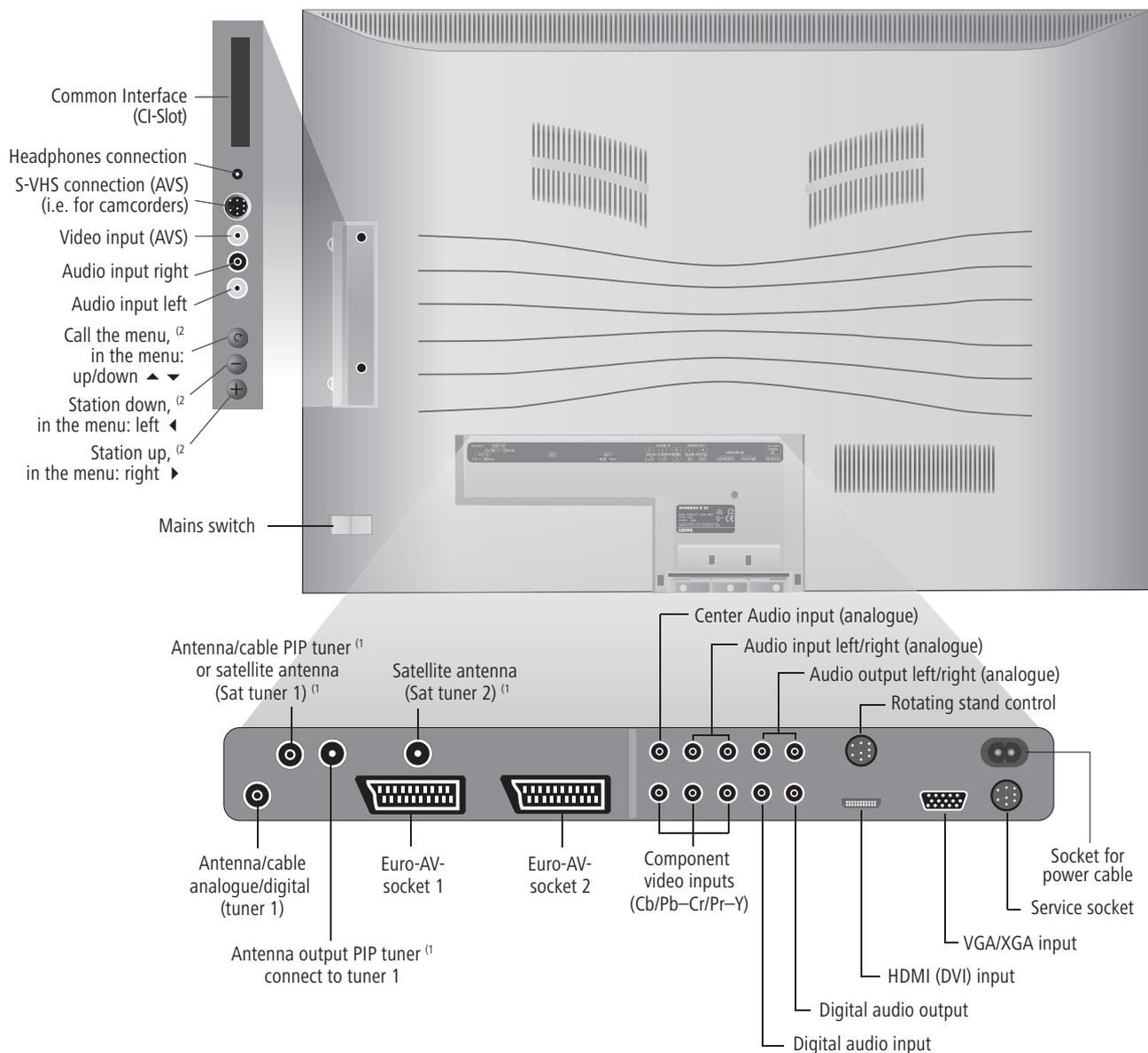Call the menu, (2 in the menu: up/down ▲ ▼

Station down, (2 in the menu: left ◄

Station up, (2 in the menu: right ▶

Mains switch

Antenna/cable PIP tuner (1 or satellite antenna (Sat tuner 1) (1

Satellite antenna (Sat tuner 2) (1

Center Audio input (analogue)

Audio input left/right (analogue)

Audio output left/right (analogue)

Rotating stand control

Antenna/cable analogue/digital (tuner 1)

Euro-AV-socket 1

Euro-AV-socket 2

Component video inputs (Cb/Pb–Cr/Pr–Y)

Socket for power cable

Service socket

VGA/XGA input

HDMI (DVI) input

Digital audio output

Digital audio input

Antenna output PIP tuner (1 connect to tuner 1

(1 Set-specific equipment and retrofitting options for PIP and satellite tuners, see pages 46 and 47.

(2 Only for Spheros R 37.

Welcome

Thank you!

At Loewe, we combine the highest standards of technology, design and user friendliness. This applies equally for TV, video and accessories.

Your new TV set is ideally equipped for the TV standard of the future - "HDTV" (High Definition Television). With its high-resolution screen and the future-proof digital interfaces HDMI, you have the option to view HD content with excellent picture quality. It therefore carries the European quality mark "HD ready".

Digital TV is steadily spreading via terrestrial reception, in the cable network and via satellite. Loewe supplies sets equipped with DVB-T and DVB-C (DVB-C not for GB). A digital satellite tuner (DVB-S) can be retrofitted. The DVB integrated within the TV set is operated via the TV set menus using the remote control.

We have designed this TV set so that it is easy to operate by using menus. Information about settings in menus is shown automatically; this enables you to understand the context quickly.

You will find the answers to many of your technical queries in the index of your TV. If you want to operate the TV, you can access functions directly from the index. This saves you from having to read through detailed operating instructions and is the reason why this operating manual only explains the most important operating steps.

Integrated features

The maximum equipment is described in these operating instructions. Functions indicated by * are not available in all TV sets. Menu contents may differ from the ones shown, depending on how your TV is equipped.

You can display how your set is equipped in the "Integrated features" index (press the **INFO** button in the TV mode if no menu is displayed; the "Integrated features" menu item is also displayed in the index before the initial letter A). There are separate operating instructions for Digital Recorder+.

Scope of delivery

- LCD-TFT TV set
- Mains cable
- RC3 remote control with 2 batteries
- Table stand
- Marketing and service card
- Fabric hose
- Screen cleaner set (only for Spheros R32/37)
- These operating instructions

Transporting

Only transport the unit in an upright position. Hold the set by the top and bottom edges of the housing. The LCD screen is made of glass and/or plastic and may break if not handled carefully. Should the LCD screen become damaged or should the liquid crystal begin to leak, then it is imperative you wear rubber gloves when removing the set. Should the liquid come in contact with your skin, thoroughly rinse with water immediately.

Installation options

As a desktop unit

Use the stand included in delivery. There are assembly instructions included with the stand. First read these assembly instructions and then set up your set.

As a rotating desktop unit for Spheros R 32/37

- Manual rotating plate for table stand TS51, Loewe order no. 89417001.
- Table stand Motor Unit, Loewe order no. 88197B51.
  You also require an adapter kit, Loewe order no. 89117A00.

As a wall-mounted unit

- Wall holder WM52 for Spheros R 26, Loewe order no. 64493A00.
- Wall holder WM53 for Spheros R 32/37, Loewe order no. 63493A10.
- Screen Wall Mount 1 for Spheros R 26/32, Loewe order no. 66484B00 (Only in connection with VESA adapters, see accessories on page 46).
- Screen Wall Mount 2 for Spheros R 37, Loewe order no. 65493B00 (Only in connection with VESA adapters, see accessories on page 46).

As a free-standing unit mounted on a rack for Spheros R 32/37

- Flat TV F-Stand 3, Loewe order no. 64498A00.
- Spheros Rack 1, Loewe order no. 58490A01/M01.

As a rotating, freestanding unit mounted on a rack for Spheros R 32/37

- Spheros Rack Cube 1, Loewe order no. 61493A00/M00 + A30/M30.
- Spheros Rack Cube 1 TV, Loewe order no. 62497A00/M00 + A30/M30.
- Spheros Rack Cube 2, Loewe order no. 61494A30/M30.

You also require an adapter kit for the Cube Racks, Loewe order no. 89117A00.

Welcome

Note on the LCD screen

The TV set with an LCD screen you have purchased meets the highest quality requirements and has been tested for pixel errors. Despite the utmost caution in production of the displays, it cannot be totally ruled out that some of the pixels might be defective for technological reasons. Please understand that such effects cannot be considered a unit defect as defined by the warranty as long as they are within the limits specified by the standard.

Cleaning

Use only a soft, clean, damp cloth to clean the TV set, the screen and remote control (do not use any caustic or abrasive cleaning agents).
Use the cleaning cloth and cleaning agent included for this purpose (only for Spheros R32/37).

Note: The front panel may only be removed by your dealer even in case of dirt on the inside.

Disposal

Packing and box

You have chosen a long lasting technical product of very high quality. We have paid a fee to authorised recyclers who will collect the packing from your dealer for disposal, pursuant to domestic regulations. Nevertheless, we recommend you to keep the original box and packing material for optimum protection if you have to transport the set.

The set

Attention: The EU directive 2002/96/EC regulates the proper way to recycle, handle and utilise used electronic devices. Hence, all used electronic devices are to be disposed of separately. Please do not dispose of this set in the normal household rubbish.
You may return your used set free of charge at designated recycling centres or at your specialist dealer whenever you purchase a new, comparable set. You can find out more about recycling (also for countries outside the EU) from your local government.

For your safety

For your safety and to avoid unnecessary damage to your TV set, please read and observe the following safety instructions:

• This TV set is designed exclusively for reception and reproduction of video and audio signals.

• This equipment is designed for domestic and office environments and must not be used in rooms with high humidity (e.g. bathroom, sauna) or high concentrations of dust (e.g. workshops). If the equipment is used in the open air, ensure that it is protected against moisture (rain, drips, splashes, sprayed water or dew). Do not place any containers filled with liquids or lit candles on top of the TV.
High levels of moisture and concentrations of dust cause leakage currents in the equipment, which can lead to danger of electric shock or fire.
The manufacturer's warranty is only valid for use in the specified permissible environment.

• If you have moved the TV set out of the cold into a warm environment, leave it standing for about an hour since condensation may form.

• This equipment must only be connected to a mains power supply which has the same voltage and frequency as that specified on the rating plate; use the power cable provided. Incorrect voltages can damage the equipment.
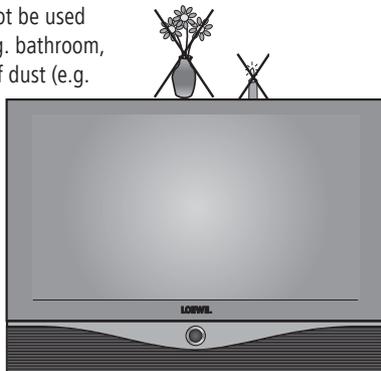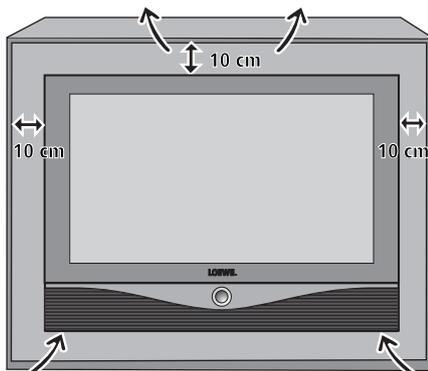
• Like all electronic equipment, your TV needs air for cooling. Obstruction of the air circulation can cause fires. Therefore the air vents on the back must always be kept free. Please do not place newspapers or cloths on/over the TV.
If the TV is placed in a cabinet or on a shelf, leave at least 10 cm at the sides and 10 cm at the top to ensure sufficient air circulation.

Position the set so that it is not exposed to direct sunlight and additional heating from radiators.

• Prevent any metal parts, needles, paper clips, liquids, wax or the like from getting into the TV set through the air venting slits in the rear panel. This can lead to short-circuits and possibly to fire. If something should get into the inside of the TV set, pull out the plug immediately and notify customer service.

• Never remove the back of the TV set yourself. Repair and servicing of your TV set should only be carried out by authorised TV technicians.

• Place the TV set on a level, firm base. The set should not protrude at the front when installing in cabinets or shelves.
Only use original accessories if possible, e.g. Loewe wall holders and stands.
Never let children handle the TV unattended.
Do not allow children to play in the immediate vicinity of the TV, they could knock, shift or pull it over and injure someone.
Never leave the TV on unsupervised.

• Do not install the TV where there may be vibrations. Vibrations can lead to material stress.

• Pull out the power and antenna cables during thunderstorms. Surge voltages caused by lightning strikes can damage the TV through the antenna system and the mains. Also remove the antenna and mains plugs in long periods of absence.

• The mains plug of the TV set must be easily accessible so that the set can be disconnected at any time.

• Lay the mains cable in such a way that it will not be damaged. The power cable may not be kinked or laid over sharp edges, not stood on and not exposed to chemicals, the latter also applies to the device as a whole. A mains cable with damaged insulation can lead to electric shocks and is a fire risk.

• When removing the mains plug, pull the plug housing and not the cable. The wires in the plug could be damaged and cause a short circuit the next time it is plugged in.

First installation

Remote control

Batteries

To insert or change the batteries, press on the arrow. Slide the battery compartment cover downwards and remove it. Insert LR 03 alkaline-manganese batteries (AAA) and ensure that the + and - ends are positioned correctly.
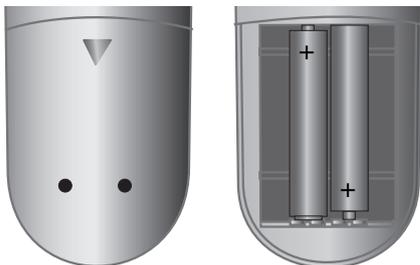
Then push the cover back on from the bottom.

Note on disposing batteries

The batteries provided contain no harmful materials such as cadmium, lead or mercury.
Regulations concerning used batteries stipulate that batteries may no longer be thrown out with the household rubbish. Deposit any used batteries free of charge into the designated collection containers set up at commercial businesses.

Setting up the remote control for operating the TV
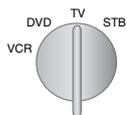
Set the rotary switch to "TV"

How to operate other equipment is described as of page 39.

Connection

Power mains

Remove the cover for the connections.
Connect the TV set to a 220-240V/50- 60 hertz power outlet. Plug the small plug of the mains cable into the mains socket on the rear of the TV set; plug the large mains plug into a mains socket.

Antennas

Plug the antenna plug of your antenna/cable system or the room antenna for DVB-T into the ANT-TV socket (Tuner 1 for Spheros R 32/37).

Spheros R 26

Spheros R 32/37

11 - GB
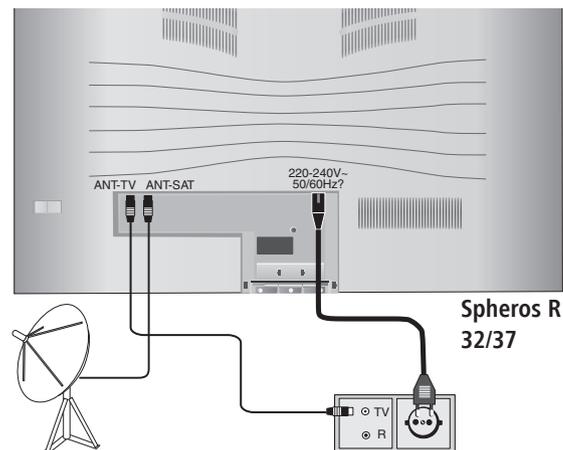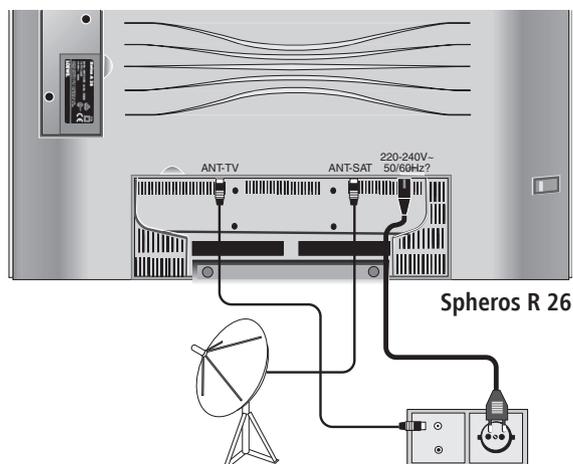
First installation

If the reception conditions are good, then a room antenna may be used for DVB-T. Passive and active room antennas are available on the market. The power is supplied for an active antenna via the antenna connection. For automatic programming or in "TV Menu – Connections – Antenna DVB – Antenna DVB-T," the distribution voltage (5 volts) is to be set correspondingly.

It may be practical to use a nondirectional antenna. If the location is outside the normal transmitting range, then a unidirectional antenna may also be used to improve the reception quality.

You can find out more on the digital stations that can be received in your area at your specialist dealer.

If a set was retrofitted with a PIP tuner or if this is already integrated in a set with a digital recorder, then plug the antenna into the antenna input of the PIP tuner and connect the PIP tuner output with the ANT-TV socket (Tuner 1). See illustration on page 7.

Set-specific equipment and retrofitting options for PIP and satellite tuners, see pages 46 and 47.

If a Digital Satellite Tuner 1 has been retrofitted, connect your satellite antenna system to the ANT-SAT socket.

If a Digital Satellite Tuner 2 has been retrofitted, connect one antenna cable each, for example from the antenna switch or from the twin LNC, to both SAT sockets.

When laying the cable, use the cable clips affixed beneath the TV set.
Replace the connection cover on the TV set.

Handling the fabric hose
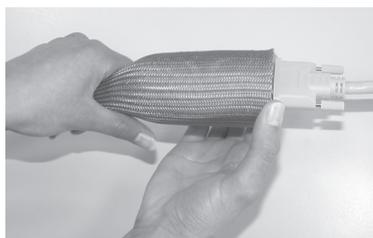
Use the fabric hose included to lay the mains cables, antenna cables or cables from other electronic components systematically; then lead the hose with the cables to the connection boxes. This provides you with an elegant solution when laying cables.

The diameter of the fabric hose increases when you push it together lengthwise (see illustration). This makes it easier for you to push through cables with plugs.

Using the conditional access module

In order to be able to receive encrypted digital stations, the conditional access module (CA module [1]) and the smart card [1] both have to be inserted into the corresponding slot of your TV set. You can find the slot common interface (CI-Slot) on the back of your TV set, see the illustration on pages 6/7.

1. Make sure the TV set is switched off with the mains switch on the set.

2. First push the smart card into the CA module as far as it will go. Insert it so that the side with the golden contact chip faces the side of the module printed with the supplier's brand logo. Printed arrows indicate how to insert the card. Also follow the installation instructions included with the smart card.
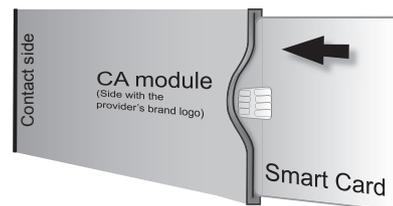
3. Slide the CA module carefully into the slot with the contact side facing the front. The logo on the CA module should be visible.
   Make sure the module is not twisted in the process. Do not use force.
   When the module locks, the eject button is pressed outwards.
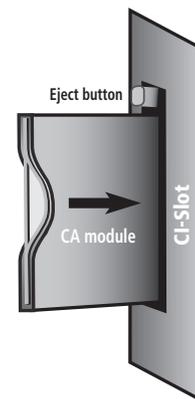
[1] The CA module and the smart card are not included in the scope of delivery for this set; you can usually obtain them at your specialist dealer.

Switching on

Press the mains switch (for Spheros R 37, the set switches on immediately, the green indicator lamp lights up).

For Spheros R 26/32:
The red indicator on the set now lights up (standby mode).

Switch on the set using the switch integrated in the indicator. The green indicator on the set now lights up (for further operating options see page 14).

Automatic programming

Automatic programming of the TV set is started the first time you switch it on. Follow the menus.

By pressing in one of the arrow directions, you can choose the settings ...

... and confirm your settings by pressing OK. You then go to the next menu.

Back to the previous menu.

1. First you have to select the menu language.
2. By pressing the **OK** button, you can call the menu "Connect antenna cable(s)". If you want to receive digital stations via satellite, then choose "DVB-S" - confirm using the **yellow** coloured key. If you also want to receive digital terrestrial stations (DVB-T), then select "DVB-T". Also select "Antenna/cable (analogue)" - this way the standard analogue stations can also be searched for and saved. If you can receive digital stations from the cable network, then select "DVB-C" using the **yellow** coloured key.

Initial installation		
Connect antenna cable(s)		
Antenna cable(s) for:	to antenna socket(s):	
Antenna/cable (analogue)	ANT TV	☑ ▭ ┃
DVB-T	ANT TV	☑
DVB-C	ANT TV	☑
DVB-S	ANT SAT	
	Connect/disconnect	
OK Proceed	◄◄ Back	

3. For the country-specific station sorting and for presettings for DVB-T and DVB-C, enter the location at which the TV set is operated.
4. If you have selected "DVB-T", you then reach the menu "Antenna DVB-T". If you use an active antenna, then select "yes (5V)".
5. If you have selected „DVB-C", you generally leave the symbol rates and modulation types unchanged.
   If other symbol rates are used in your cable network for broadcasting, enter the values with the numeric buttons of the remote control. If only one symbol rate is used, enter the same value for both symbol rates. If other modulation types are used for broadcasting in your cable network, select them in the menu. If only one modulation is used, select „none" for modulation type 2.
   If necessary, ask your specialist dealer about the necessary settings for your cable network.
6. In the "Select satellite installation" menu, make the selection that corresponds to your satellite antenna installation.
   Note: If you have any questions on how your satellite antenna installation is configured and on the antenna settings, consult your antenna installer or your specialist dealer.
7. Select the satellite the antenna is directed at, such as ASTRA1.
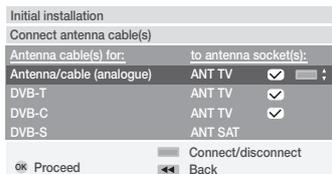
If you only receive one satellite ...

8. In the following menu, specify whether the station search should take place in the high and low band ("Yes") or only in the low band ("No").
   Note: For most satellites, a station search is required in both bands.
9. For the low band and high band, the standard frequencies 9750 MHz (9.75 GHz) and 10600 MHz (10.6 GHz) are preset.
   If your satellite antenna is equipped with an LNC (LNB) with a divergent oscillator frequency, specify the corresponding frequency for low and high band respectively. Note: The correct display of the received frequencies in the "TV menu – Settings – Stations – Manual adjustment" depends upon this setting.
10. You should receive a picture with sound with the settings previously made (only for ASTRA 1 and HOTBIRD). Then press **OK**.
11. In the "Pre-programming" menu, select the factory-set pre-programming to programme the satellite stations quickly.
    To ensure all stations that can be currently received are searched for and saved, select "No" at this point.
    Symbol rates: The standard symbol rates 22000 and 27500 are preset. If you would like to receive stations with different symbol rates, specify the corresponding values here using the numeric buttons on your remote control.
12. Press **OK** to obtain an overview of the settings with which the automatic programming is to take place.
13. Press the **OK** button again and the station search will start. The TV set searches for, sorts and saves all the TV stations that can be received, according to your settings and the antennas connected.
14. When the TV stations are saved, you will receive a corresponding message.
15. Press the **OK** button and the set then searches for the radio stations.
16. The TV set searches for, saves and sorts all radio stations which can be received with your antenna system.
17. Then log on your video equipment, decoder and audio system using the connection wizard and connect these to the TV according to the connection diagram displayed. If you want to connect other equipment later, you can find information as of page 32.

You can repeat the initial installation at any time, e.g. after moving house. Call the index using the **INFO** button (in the TV mode, if no menu is opened). Select the index item "Repeat initial installation" (you will find this listed separately before the letter A). Press **OK** to start the initial installation.

Note: For DVB-T stations in GB the stations are tied to "Logical Channel Numbers" -- "LCN" and sorted from 1-799. Digital stations without "LCN" are stored from 800 onwards. Analogue stations are stored from 1001.

Station sorting

Note: not with DVB-T stations in GB.
You can change the station sorting that was carried out automatically later at any time, see "TV menu – Settings – Stations – Change stations".

First installation

Directing DVB-T antenna

<u>Note</u>: not with DVB-T stations in GB.

If you use a room antenna to receive one or more DVB-T stations that have picture and sound interference, then you should change the location of where the antenna is set up.

To help you direct your antenna or to help you determine the most suitable location to set up the antenna, your TV set has a display for the signal quality **C/N** and the signal strength **Level**.

Consult your specialist dealer to find out which channels and frequency bands (VHF or UHF) are used to broadcast the digital TV stations in your area.

On any one channel, several digital stations are broadcast.

Select a TV channel

1. Call the "TV menu" via the **MENU** button.
2. Use ◄ ► to select "Settings", then use ▼ to select the menu line underneath.
3. Select "Stations", then use ▼ to select the menu line underneath.

TV menu				
Settings			INFO	END
Stations	✧	Parental lock	Timer functions	Language
Manual adjustment	...			

4. Select "Manual adjustment" and call the menu using **OK**
   (not possible for MHEG-5 device versions).

Manual adjustment				
Signal source	DVB-T	✧	DVB-C	Antenna/cable (analogue)
Channel	E 05			
Frequency	177.50 MHz			
Name	Test			
Bandwidth	7 MHz			
C/N 96		Level 99		
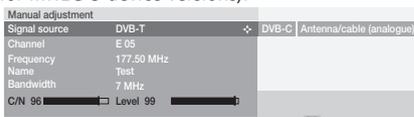
5. For digital stations, select "Signal source − DVB-T".
6. Use the **numerical buttons** to specify the corresponding channel number. Depending on the channel selected and country, the system automatically sets the corresponding bandwidth of 7 or 8 MHz. You should only change the bandwidth under special circumstances - if the channel raster in your area is different from the standard.
   When you receive a digital station, the system displays the signal quality **C/N** via a bar/numeric value and the signal strength via **Level**. The antenna's direction or position is best when the largest values possible are displayed (long bar) for the signal quality and signal strength.
7. Direct the antenna so that the largest numerical value/bar size is reached.
8. If no signal is found in the channel set, you can start the frequency search run by pressing the **blue** button within the band selected (VHF or UHF).
9. Check the other channels one after another on which digital stations are broadcast terrestrially in your area.
   For the weakest station, direct the antenna so that the maximum numerical value/bar size is achieved.
10. After you position or direct the antenna, we recommend to search for all the stations using the "Search wizard" (TV menu − Settings − Stations − Search wizard).

Daily operation

Switching on/off

Your TV is equipped with an eco-standby power supply unit. On standby, the power consumption drops to low power. If you want to save even more electricity, switch the set off with the mains switch. However, please bear in mind that EPG data (electronic programme guide) will be lost and programmed timer recordings will not be performed by the TV.

Switching off
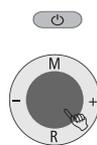
If the TV set is switched on, you can switch it to standby using the blue ON/OFF button on the remote control or by using the indicator field on the set. The red lamp on the TV set lights up. If the orange indicator lights up or if both the green and red indicators light up, then, for Spheros R 37, a timer recording is being made, EPG data is being captured or radio operation without screen display is active.

Switching on the TV set

From standby, it is best to switch the set back on using the blue On/Off button or by using the numeric buttons of the remote control (0 − 99).

Or, for Spheros R 26/32, use the switch integrated in the indicator on the set.

The green indicator on the TV set lights up.

Or switch on the TV set with **OK**, you can then see the station list and select a station.

Switch on the radio

With the **RADIO** button on the remote control
or for Spheros R 26/32:
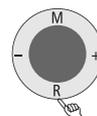
Switch on radio using **R** on the control ring of the TV set.

If you switch off the TV set using the mains switch on the set, the indicator no longer lights up.

<u>For Spheros R 26/32</u>: If the TV set is switched off via the mains switch, you have to switch it into the standby mode first via the mains switch and then switch it on using one of the above mentioned methods.

Daily operation

Changing stations

... with the P+/P- buttons on the remote control

Stations up/down

When changing, the station display is visible for a few seconds.

41 ZDF	Eifellandschaft	21:00 – 21:45
	Language/sound selection	

If additional languages are broadcast with DVB stations, then the set displays the language/sound selection under the station display. Call the language/sound selection by using the **green** coloured key and select using ▲ ▼ .

... with the numeric buttons of the remote control

The set has a dynamic memory with 1680 station memory locations. If up to 9 stations are stored, you only need to enter one digit; up to 99 stations, two digits are needed; up to 999 stations, three digits are needed (refer to the station list to see how many stations have been stored).

1 digit stations

7 pqrs
long

Press buttons 0 -9 for one second, and the station changes instantly.
Or press button 0 – 9 briefly, the station then changes after 2 seconds (the station changes immediately when only 9 stations are saved).

2- and 3-digit stations

1   2 ab 7 pqrs
short short long

After briefly pressing the first numeric button(s), keep the last numeric button pressed for one second, the station then changes immediately.
Or press all numeric buttons briefly, the station then changes after 2 seconds (the station changes immediately if up to 99 or 999 stations are saved).

4 digit stations

1   2   7   8 tuv
all short

Press the four numeric buttons briefly, the station then changes immediately.
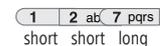
Call last viewed station (for DVB-T stations in GB)

You can switch back and forth quickly between two stations using this button.

... via the station list

Use **OK** to call the station list.

Station list		Numerical
COMP. IN	6	3SAT
HDMI/DVI	7	S–RTL
VGA	8	N–TV
AVS	9	DSF
DVD	10	TM3
VCR	11	PRO7
0 VIDEO	12	RTL 2
1 ARD	13	WDR 3
2 ZDF	14	BR
3 SAT.1	15	HR
4 RTL	16	MDR 3
5 VOX	17	N 3

21:00 - 21:45   Eifellandschaft
OK Switch to ...   Scan stations   END
0 ... 9 Select station   Change stations
                        Change sorting

Select the station (if possible, the selected station will be displayed as a small picture)
or ...

0 AV
...
9 wxyz

... select with numeric buttons

call selected station.

Blue coloured key: sort alphabetically/according to bouquets/numerically.

Station list		Alphabetical
COMP. IN		CNN INT.
HDMI/DVI		CAM
VGA		
AVS		DELUXE
DVD		DSF
VCR		
		EUROSPRT
ARD		
		HOT
BR-ALPHA		HR
BR3		
		KIKA

21:00 - 21:45   Eifellandschaft
OK Switch to ...   Scan stations   END
a ... z Select letter   Change stations
                        Change sorting

For an alphabetical display: Enter letters with the numeric button (like on a mobile phone keypad), select with ▼ ▲ ◀ ▶ and call with **OK**.
For bouquet display (sorting according to broadcasting chains, only for DVB stations, not for DVB-T stations in GB): Enter bouquet number, select with ▼ ▲ ◀ ▶ and call with **OK**.

Digital DVB-T stations are indicated by T , DVB-C stations by C and DVB-S stations by S . Encrypted stations are additionally indicated by 🔒 .
Ask your specialist dealer about decoders or the use of a CA module and a smart card for the reception of encrypted stations.

Daily operation

Basics about the menu operation

Menus are called via the **MENU** button or via the button for special menus and can be hidden by using these buttons or by using the **END** button. The menu is displayed in the bottom section of the screen. At the top, you can see additional information for the menu point selected. In the menus, navigate by using the cursor ▲ ▼ ◄ ▶. You can make settings by using ◄ ▶. When you exit the menu, the settings are adopted.

Example of the menu operation

We shall demonstrate how to navigate with the menus using the TV menu as an example. You can see which buttons you can use in the dark blue field on your TV set.

MENU   Open TV menu (in TV mode).

> **Picture**
> Here you can adjust among other things: Contrast, colour, brightness, picture adjustment, sharpness, picture format.
>
> | TV menu | | | | INFO END |
> |---|---|---|---|---|
> | Picture | Sound | Recording | Connections | Settings |
> | Picture adjustment | ... | | | |

Select the function in the TV menu, e.g. "Sound" (for sound settings). Use ▶ to move the menu points displayed on the right into the dark blue field; use ◄ to move the menu points displayed on the left.

	TV menu			INFO END
Picture	Sound	Recording	Connections	Settings
	Treble	...		
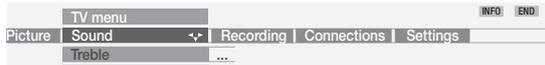
Select the sound function below with ▼ or **OK**; you will then see a list of the sound settings.

TV menu			INFO END
Sound			
Treble	Bass	more ...	
4			

In the sound settings, also select the function with ◄ ▶, e.g. "Bass" (for increasing or reducing the bass tones).

TV menu			INFO END
Sound			
Treble	Bass	more ...	
6			
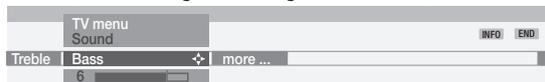
To set the bass tones, use ▼ or **OK** to select the setting bar underneath.
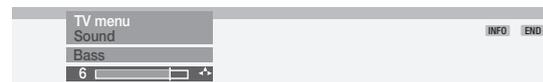
Set the bass tones by using ◄ ▶.

TV menu	INFO END
Sound	
Bass	
6	

If you want to make other sound settings, move up with ▲ to "Bass" and select with ◄ ▶, e.g. "more...". You can also move up further to "Sound" by using ▲ and select other settings in the TV menu (such as, picture settings).

	TV menu			INFO END
Bass	Sound			Treble
	more ...			

Use **OK** to call additional sound settings.

	TV menu				INFO END
Bass	Sound				
	Loudspeaker sound	Headphone volume	Headphone sound	Auto vo
	Stereo	...		
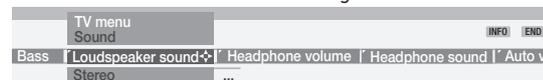
Select the sound setting using ◄ ▶, e.g. "Auto volume" and ...

	TV menu				INFO END
sound	Sound				
	Auto volume	AV audio signal	Maximum volume	Balance
	off	...		

... use ▼ to select the auto volume option.

TV menu	INFO END
Sound	
Auto volume	
off	on

Use ◄ ▶ to select "on" and activate the auto volume.

TV menu	INFO END
Sound	
Auto volume	
off	on

END   Press the **END** button to hide the menu.

Apart from the TV menu shown here, other menus can be opened in TV mode as follows:

Call the Sound menu directly.

Call the Picture menu directly.

Quick calls for Image+ *, teletext subtitles, personal text pages, headphone volume, scan stations and to move the picture up and down.

Green coloured key: Call standard settings for picture and sound.
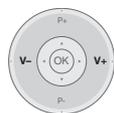
Using the volume control, you can also open other sound settings, such as Sound via, Sound adjustment, Sound effects and Loudness.
The key ▲ or **OK** must be pressed for the duration of the volume display for this.

Daily operation

For the info system ...

For each menu point, an info text is displayed at the top of the picture to help you with the setting. This saves you from having to refer back to the operating instructions. We shall demonstrate this using the station search option as an example:

MENU   Call the TV menu.

Select "Settings".

> **Settings**
> Here, you can search for the stations automatically or manually as well as set the menu language, timer functions, parental lock, on-screen displays, etc.
>
> TV menu
> ctions | Settings | Picture | Sound | Recording | Conne
> Stations | ...
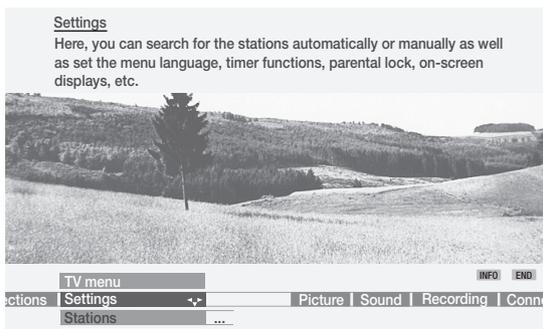
In this example, you can see the options available after "Settings".

If you want to search for new stations, for example, use ▼ to select "Stations" in the line below.

> **Stations**
> The menu contains the automatic station search and the manual station setting. You can re-sort stations, enter and change station names and delete stations.
>
> TV menu
> Settings
> Stations | Parental lock | Timer functions | Language | Mi
> Search wizard | ...
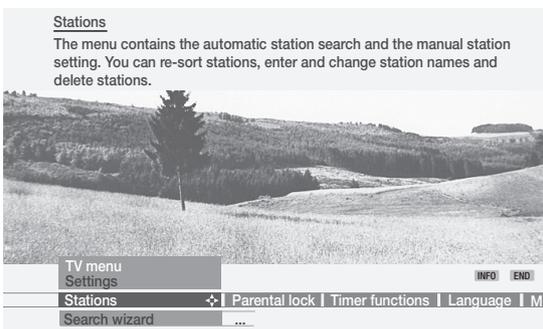
The info text indicates which settings you can make in "Stations".

Use ▼ to select the line below, for example "Search wizard".

> **Search wizard**
> Use this menu to search for stations automatically once certain settings have been made.
> If you want to search for stations with other than the displayed settings, select the "Change settings" menu.
>
> TV menu
> Settings
> Stations
> Search wizard | Manual adjustment | Change stations
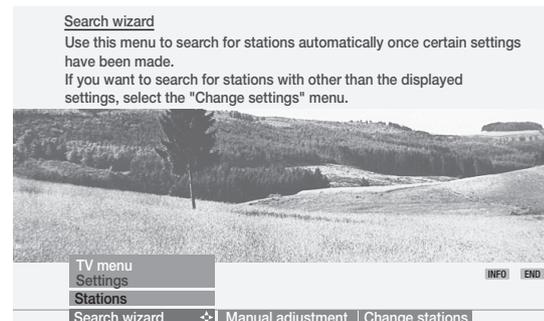
The info text explains how you are to proceed.

Upon delivery, the TV set is configured so that the info texts are always displayed (Automatic info "yes"). In this case, you can hide the info texts by using the **INFO** button.

You can also configure the TV set so that you call the info texts when needed by using the **INFO** button (Automatic info "no"). You can find the setting to switch the automatic info option on or off via "TV menu under Settings – Miscellaneous – On-screen displays – Automatic info – yes/no".

Daily operation

For the index ...

Using the index, you can access many operational functions directly. You can also find a great deal of information on technical terms about television. Before the alphabetical sorting, you can find the menu language option, the list of features integrated into the TV set and the repeat initial installation option.

| INFO | Call the index in the TV mode (without any other on-screen displays).
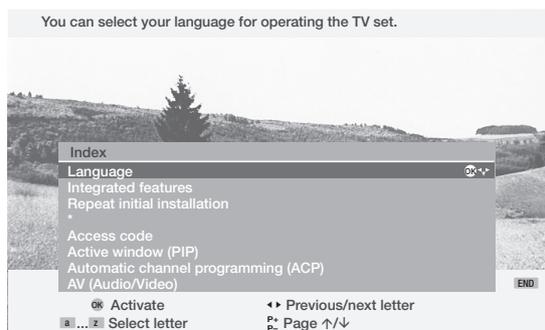
Info on the index item selected is visible at the top of the picture. If the OK symbol is displayed in the line selected, you can use the **OK** button to access the menu directly and carry out settings or selections.

This is how to select the index item:

| 2 abc ⋮ 9 wxyz | Enter the first letter using the numeric buttons on the remote control (like on a mobile phone keypad); or |

| (OK) | use ◀ ▶ to go to the previous/next letter, or |

| (P+/P−) | use **P+/P−** to scroll up or down through the pages |

| (OK) | and use ▼ ▲ to go from line to line. |

For example, you want to have the TV set switch off automatically:

Select the index item "Switch off" − "Automatic".
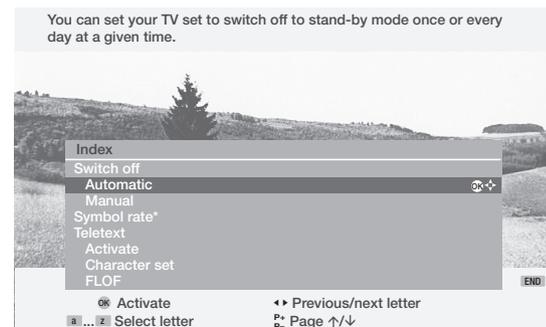
| (OK) | Use the **OK** button to call "Switch off" − "Automatic". |
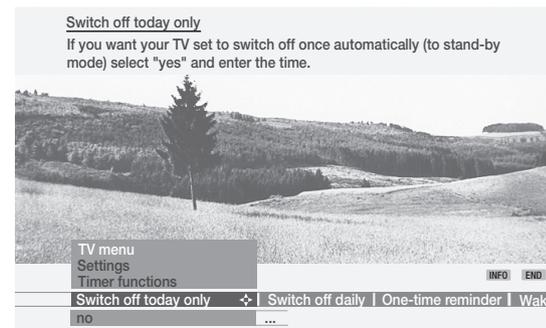
The corresponding menu "Timer functions" is displayed (in the TV menu − Settings). You can now choose between "Switch off today only" and "Switch off daily" and enter the time.

Daily operation

Setting the sound

Volume and other frequently used sound settings

Setting the volume

Volume	...
24 ▭▭▭	

by using ▲ or **OK**, you can call other sound settings ...

Volume	⌄	Sound adjustment	Sound effects	Loudness
24 ▭▭▭				

and select using ◄ ► ...

Volume	Sound adjustment ⌄	Sound effects	Loudness	V
	normal			

use ▼ for the related selection/setting...
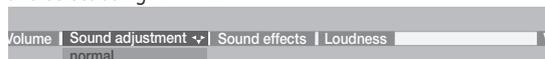
	Sound adjustment			
normal	Pop ⌄	Classic	Speech	n
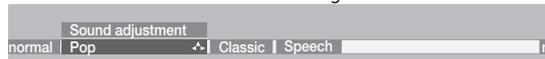
... and use ◄ ► to make the selection/setting there.

Sound adjustment allows you to adjust the sound characteristics to the station's sound. The Sound effects settings allow you to expand a Dolby Pro Logic Signal to a virtual surround signal by using "Dolby Virtual"; by using "Panorama", you can enhance the foundation of the stereo sound virtually for the loudspeakers.

Sound off/on

Sound off;
Sound on: Press button again or adjust volume.

Sound off

Sound on

Other sound settings:

Call the Sound menu

Sound		INFO	END
Treble	⌄	Bass	more ...
4 ▭▭▭			

use ◄ ► to select the sound function to be set and use ▼ for the related selection ...

Sound		INFO	END
Bass			
6 ▭▭▭ ⌄			
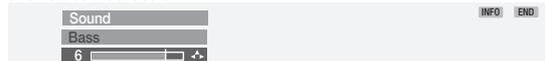
and use ◄ ► to select/set.

Sound settings: Treble and bass. Different menu items are displayed depending on the connected audio device (AURO, hi-fi amplifier). Under "more ..." you will find the sound selection for loudspeakers and headphones, auto volume, headphone volume, AV audio signal, maximum volume and balance.

Picture settings

Open the Picture menu

Picture		INFO	END
Picture adjustment ⌄	Contrast	Colour	Brightness	Sharpness	mo
normal ...				

use ◄ ► to select the picture function to be set and use ▼ for the related selection ...

Picture		INFO	END
Colour			
6 ▭▭▭			
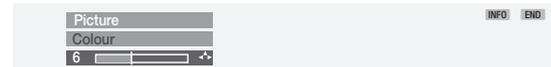
... and use ◄ ► to set/select.

Picture settings: Picture adjustment, Contrast, Colour, Brightness, Sharpness. Under "more ...", you can find settings for Image+*, Picture format, Move picture up/down, Auto format and Film quality improvement DMM*.

Direct control on TV set

On page 4 and 5, you can find illustrations of the control units located on the set.

Switching station on the TV set

Station up: with the button **+**

Station down: with the button **–**

Switching the radio on/off or switching over to the radio

Press **R** to switch the radio on or off (not for Spheros R 37).

Additional functions via the menu

In the radio or TV operating modes, you can make settings for Volume, Brightness, Contrast, Picture format and Stations. "Service" is intended for the customer service department.

use **M** or ↻ to call the menu

Direct control on TV set				
Operating mode ⌄	Volume	Brightness	Contrast	Picture f
TV				

use **–** or **+** to select the function to be set

Direct control on TV set				
n mode	Volume ⌄	Brightness	Contrast	Picture format	Stat
	24 ▭▭▭				

use **R** or ↻ for the related setting/selection

Direct control on TV set	
Volume	
18 ▭▭▭ ⌄	

use **–** or **+** to set/select.

Use **M** or ↻ to move one level up; you can use **–** or **+** to select other functions.

TV

In initial installation and daily operation, the TV set is in TV mode. This is also the case when none of the other modes of operation, such as EPG, Teletext, PIP or Radio, have been selected.

Each of these operating modes has a separate menu with separate functions for the coloured keys. Call the menu via the **MENU** button.

How the coloured keys work in TV mode

Note: The coloured keys do not work as described below with DVB-T stations in GB, but they operate as described on page 30 (Digital Teletext).

Red: the TV picture freezes. Pressing this button again starts the picture moving again. If your TV set is equipped with a digital recorder, the DR archive is called.

Green: Call personal settings/factory settings for picture and sound, save picture and sound settings as personal settings.

Standard settings pict./sound		INFO END
Call up personal settings	OK ‹ ›	Call up factory settings	Store as per
OK Activate		

Yellow: call last station viewed. You can switch back and forth quickly between two stations using this button.

Blue: call programme info.

| 1 ARD | Eifelland | 14:30 - 15:15 |

| Programme info | 14:43 | END |
| Detailed info | OK ‹ › | Detailed info (teletext) | Programme preview (|

Show status display

END   Show/hide status

1 ARD	Eifellandschaft	14:30 - 15:15	Stereo
14:42	Alarm time 20:00	Sleep timer 23:00
	Language/sound selection	

In the line above, you can see the name of the station and the sound mode. Displayed below are additional options (Time, Sound mode, Alarm time and Sleep

timer) that can be selected in the "TV menu – Settings – Miscellaneous – On-screen displays".

For the status display, the DVB station providers may offer additional selection options for each station. Thus, the corresponding colour key or the **TEXT** button is displayed:

Red: channel selection for multi-channel providers.

Green: language/sound selection.

Yellow: time selection.

Blue: protection of minors.

TEXT   DVB subtitles.

If you press one of the coloured keys during the status display or you press the **TEXT** button, the related selection menu is displayed.

The status display subtitles refer only to the "DVB subtitles" and are not provided by all stations. The options you see depend on the particular station (many stations broadcast subtitles via teletext).

The status display is displayed automatically when a new programme begins with options different to the previous one.

Notes:

• In the sound mode, Mono! means that you have switched manually from stereo to mono, for example.

• The selection menus are only available as long as the status display is displayed. You can call them again at any time by pressing the **END** button on your remote control.

Calling the index

INFO   Calling the index

You can select your language for operating the TV set.

Index	
Language	OK·▾
Integrated features	
Repeat initial installation	
•	
Access code	
Active window (PIP)	
Automatic channel programming (ACP)	
AV (Audio/Video)	END
OK Activate	‹ › Previous/next letter
a ... z Select letter	P± Page ↑/↓
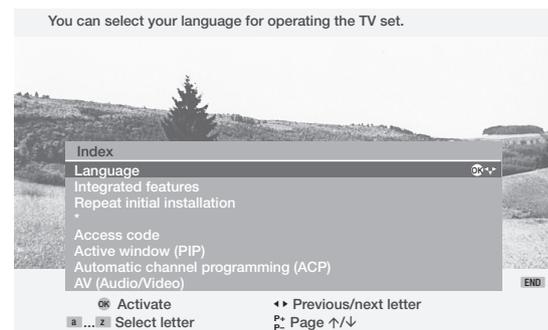
You can find more information on the index on page 18.

Operating modes – TV

Call additional functions

⊞ Select additional functions such as Image+ *, Teletext subtitles, Personal teletext pages, Headphone volume, Scan stations and to move the picture up and down.

Additional functions		INFO END
Image+		Teletext subtitles	Personal teletext pages
off	...	

Call timer overview

🕐 If timer recordings have been programmed, you will see when which station is recorded here.

Timer list	Fri 12.09./14:12
12.09. 18:00-18:30 3SAT Die Köchin, die Putzfrau und d	

TEXT Detail	New recording	Change	END
		Delete	INFO
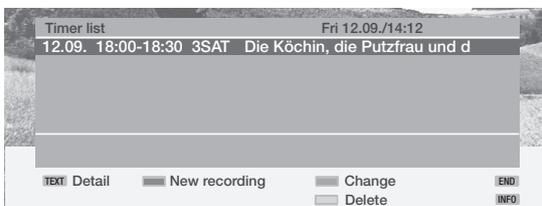
Select picture format

→☐← The TV set sets the best picture format automatically when Auto format is switched on. If you want to set a different format, press this button until the desired format is selected or select the format with ◄ ► .

Picture format	
16:9	◄ ► 4:3	Panorama	Cinema	Zoom

You can switch the panorama picture over to distortion-free representation on your TV set. Dark margins are then visible on the left and right of the picture.

Switching over: Keep the **M** or ↻ button on the set pressed, at the same time press the "Picture format" →☐← button on the remote control briefly.

Resetting: Press the same button combination again.

Move picture up/down

(OK) To make picture subtitles visible, you can use ▲ ▼ to move the picture up or down with the picture formats "Panorama", "Cinema" and "Zoom".

Note: for DVB-T stations in GB you can switch back and forth quickly between two stations using this button.

TV menu

MENU Call up the TV menu

TV menu		INFO END
Picture	◥	Sound	Recording	Connections	Settings
Picture adjustment	...	

You will find a description of the picture and sound settings on page 19. The TV menu offers other options for recording, connections and settings of the TV set.

For a recorder that is logged in, you can find the following menus in the "Recording":

Recording wizard - to programme new timer recordings
• Via EPG   • Via teletext   • Manual
You will find further information about timer recording on page 33.

Timer list
Here you will find a list of programmes programmed for recording. You can change the recording data or delete programmed recordings and programme new recordings.

Pre-record time and Post record time
For recordings without VPS/PDC, set a lead and lag time here so that the programme is fully recorded despite any slight differences in the time.

Under "Connections" you will find the following functions:

New devices/modifications (connection wizard)
The connection wizard helps you connect and log in additional equipment such as video recorders, DVD players/recorders, camcorders/digital cameras, pay TV decoders, equipment with component signals and digital HDMI/DVI signals.

Antenna DVB
• Antenna DVB-T   • Antenna DVB-S [(1]
You can find more information on pages 13 and 14.

Digital Link Plus
Transmission of the station data from the TV set to the video/DVD recorder if a recorder with Digital Link Plus is connected.

Miscellaneous (connections)
• Set AV norm for the connections manually (if it is not recognised automatically).
• "Assign audio digital signals" to one of the AV sockets.
• "Allow switching voltage" to display the signals of the connected device immediately on the screen via Euro AV during playback.
• RGB insertions at AV2 to play back RGB signals at all station storage locations.
• Select decoder stations and set sound encoding.

[(1] only for sets with DVB-S

Operating modes – TV

Under "Settings" you will find the following functions:

Stations
Here you can search for and store new stations automatically or manually. With "Change stations", you can rearrange and delete the stations and change station names (not for DVB-T stations in GB).
• Search wizard   • Manual adjustment   • Change stations

Parental lock
You can lock the TV "immediatley", "daily" for a certain period of time or "age-related" for DVB programmes with age restrictions.
Here, you determine the PIN to enter if you want to watch locked programmes.

Timer functions
You can have your TV switch off at pre-programmed times or wake you/remind you with radio or TV. If you are not present at the time, a safety prompt makes sure the TV switches off again after 5 minutes.
• Switch off today only   • Switch off daily   • One-time reminder
• Wake up Mon-Fri   • Wake up Sat   • Wake up Sun   • Wake up with *
• Wake up signal volume

Language
If "your" menu language is not set, you have to select the "Language" menu in a language that you do not understand. Therefore here is a simple way to set the right menu language:
1. Press the **INFO** button (index), select the first listing (this is above A).
2. Call the language selection by pressing the **OK** button.
3. Now select the desired language and confirm it by pressing the **OK** key.
4. Hide the menu again with the **END** button.

Miscellaneous (settings)
On-screen displays
You can set the duration and position of the station and status display, define the content of the status display and switch the automatic info texts on or off:
• On-screen display time   • On-screen display position   • Programme title
• Sound mode   • Time   • Alarm time   • Sleep timer   • Automatic info

Time and date
If you receive teletext, the set registers the time and date. These are required for timer recordings, timer functions and EPG. If you do not receive teletext, then you have to enter the date and time; you should not switch off the set using the mains switch since the settings will then be lost.

DVB software
Update of DVB software via satellite (1.

DVB subtitles
• Subtitles off   • Subtitles for the Hearing Impaired
• Subtitles as translation for foreign language programmes

DVB character set
 • Western European   • Polish   • Standard.

Rotate TV
For Spheros R 32/37, it is possible to rotate the TV set on a Loewe rotating stand. You can find out more on page 41.

DVB subtitles

If the station provides DVB subtitles, then you can have the TV display them permanently or suppress their display. You can also select between subtitles "for translation" or "for the Hearing Impaired".

1. Call the "TV menu" via the **MENU** button.

2. Select the "Settings" line and confirm using **OK**.

3. Select the "Miscellaneous" line and confirm using **OK**.

4. Select the "DVB subtitles" line and confirm using **OK**.

DVB subtitles		
Subtitles off	OK ↕	END
for impaired hearing		
for translation		INFO

Note: If you have selected "Subtitles off", then the set generates an on-screen display when subtitles are available.

By using the **END** button, you can open the status display and you can display the subtitles again by using the **TEXT** button.

• Call the status display by pressing the **END** button, if it is not yet displayed.
• When the status display is visible, press the **TEXT** button.
   Select the desired language and confirm using **OK**. The presetting changes for the current programme.
• Which subtitle languages can be selected depends on the provider.
• The automatic shortlist is determined by the menu language and the selection made in the "DVB subtitles" settings menu.
• By pressing the **END** button, you can hide the menu again.

Note: DVB subtitles are not available when Digital Teletext is selected.

(1 only for sets with DVB-S

Operating modes – TV

Removing the CA module

1. Switch the TV set off with the mains switch.
2. Remove the cover from the back of the set on the upper left.
3. Press the eject button at the module slot; the module is unlocked.
4. Remove the module from the set.
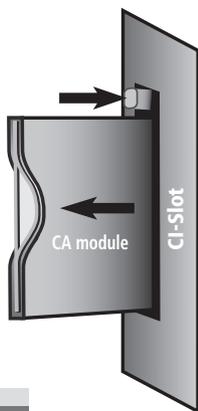
Inserting a new CA module

After you insert a new CA module (CI module [1] is displayed in the menu) and switch the TV set on, the following dialogue is displayed:

> **Autom. station search**
>
> Your TV set has detected a new CI module. This requires a station search for all new receivable stations.

After you press the **OK** button, the system starts the wizard to carry out the automatic station search.
Check the proposed search parameters and let the set search for new stations.

Calling the CA module menu

Here you can call up information on the inserted conditional access module and the smart card. To do this, use the **MENU** button to call the TV menu, select the line "Settings", "Miscellaneous" and then the entry "CI module - xxx" (in place of "xxx" stands the name of the provider which is output by the smart card. The term CI module [1] displayed in the menu refers to the CA module. The content of this menu depends on the particular supplier of the CA module.

Note: This menu is only available for digital stations

Installing new DVB software.

To ensure your DVB-S receiver is always performing at the state of the art, newly developed software versions are made available from time to time; these are broadcast via satellite and can be automatically installed on your set (only possible via ASTRA1).

Software is recognised automatically

The set can determine whether a new software version is available. This occurs at night when your EPG is automatically updated. For this, your TV set has to remain in the standby mode (do not switch off using the on/off button on the set).

If a new software version has been found, the set will indicate this with an on-screen message the next time the set is switched on: You can decide whether or not you want to download the new software.
Confirm using **OK**, so that the new software can be loaded and installed via satellite. Continue as set out in the "Downloading software" section.

Searching for new software

If you want to carry out a manual search for new software, proceed as follows:

1. Call the TV menu using the **MENU** button.

2. Confirm the "Settings" using **OK**.

3. Confirm the "Miscellaneous" using **OK**.

4. Select "DVB software" and press **OK**.

> **Update digital TV software**
>
> Current version: V3.x.x
>
> You can search for a new software version with OK.

5. If you start the search using **OK**, the set checks if there is a new software version available.

6. If there is a new version available, the set generates an on-screen message.

> **Update digital TV software**
>
> Current version: V3.x.x
>
> New version: V3.1.0

Downloading software

1. If you press **OK** in the dialogue above, you can decide whether you want to download the new software immediately, when you switch off the set or not at all. We recommend you always carry out the update of the digital software. This is the only way to ensure your set is always up to date.

2. If you do decide to update, the software is initialised on your set and you are informed of the status with a grey bar.
   Do not switch your set off during this time. This process may take up to one hour. You will be informed when the process is completed.

3. After the software is updated, you will be asked to switch your TV set off and back on again using the on/standby switch.

If the update was not carried out, you will be asked several times when you switch on the set whether you want to carry out this update.

[1] CA module has established itself as the usual market name. This cannot be taken into consideration in the menu yet.

Operating modes – TV

Image+

Image+ is a picture improvement specially developed by Loewe, which delivers a sharper, lifelike and colour-fast picture richer in detail and contrast. Image+ is only integrated in Spheros R 32 and Spheros R 37.

Image+ menu

⊞   Call the menu "Additional functions".

Additional functions		INFO	END
Image+	▾	Teletext subtitles	Personal teletext pages
off	...		

OK ▾   Use ▾ to move to the corresponding selection/setting....

	Additional functions		INFO	END
	Image+			
on	off	◄ ►	Demo	

OK   and use ◄ ► to select/set and use....

Additional functions		INFO	END
Image+			
on	OK ◄ ►	off	Demo
OK Activate			

OK   to activate.

IIn the Image+ menu, the functions Image+ "on", "off" and "Demo" can be set.

The Image+ settings can also be opened via the "Picture menu".

▭   Open the Picture menu

Picture		INFO	END
Picture adjustment ▾	Contrast	Colour	Brightness	Sharpness	m
normal	...		
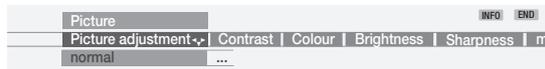
OK   use ◄ ► to go to "more..." and select with **OK**

Picture		INFO	END
rpness	Image+ ▾	Picture format	Move picture up/down	Auto for
on	...		

Select/set as described in the Image+ menu.

The standard setting at delivery of the set is Image+ "on".

Image+ demo mode

In order to show the way Image+ works, a "Demo mode" is integrated.
In "Demo mode", the current picture is divided into two parts. The left half of the picture is shown in "normal" mode, the right half in the Image+ optimised mode.

The demo mode can be closed by pressing on any button on the remote control.

GB - 24

Picture in picture (PIP)

Note: The coloured keys do not work as described below with DVB-T stations in GB, but they operate as described on page 30 (Digital Teletext).

Picture in picture displays are possible if the set has an analogue PIP tuner or a digital satellite tuner in addition to the analogue TV cable tuner. You can have a PIP tuner or a digital satellite tuner retrofitted. Set-specific equipment and retrofitting options for PIP and satellite tuners, see pages 46 and 47.
If there is no other tuner installed, you can use PIP (AV-PIP) when playing a video recorder or DVD player.
For a retrofitted PIP tuner, the following PIP displays are possible: Main picture analogue – PIP picture analogue, Main picture digital – PIP picture analogue. The following is not possible: Main picture digital – PIP picture digital, Main picture analogue – PIP picture digital.
For "Split screen," the PIP picture is displayed on the right side of the screen. Both pictures share the screen in two equal halves. For the "Small PIP" setting, a small picture is displayed in the TV picture.
The green bar/frame indicates that the control commands have an effect on the PIP picture. The white bar/frame means that the control commands have an effect on the main picture. Use the **green** coloured key to switch between the PIP picture and the main picture, for example to change stations.
The frame or bar between the pictures is green for the time being.

| # PIP | Show/hide PIP picture |

PIP picture as freeze picture

The bar/frame has to be green. If not, press the **green** coloured key.
If you press the **red** coloured key, the PIP picture freezes. Press again - moving picture.

Selecting the station of the PIP picture

The bar/frame has to be green. If not, press the **green** coloured key. Then select the station as usual.

Select the station of the TV picture (main picture)

The bar/frame has to be white. If not, press the **green** coloured key. Then select the station as usual.

Note: For GB sets, you switch from the green bar/frame to the white by using the **PIP** key. The next time you press the **PIP** key, PIP is switched off.

PIP scan in the PIP picture

The bar/frame has to be green. If not, press the **green** coloured key.
Start scanning the stations using the **blue** coloured key. The bar/frame turns blue.

The stations now change automatically. Stop scanning the stations by using the **blue** coloured key. The bar/frame turns green again.

Interchanging PIP picture/TV picture

The bar/frame has to be green. If not, press the **green** coloured key.
Interchange the pictures by using the **yellow** coloured key.

Operating modes – PIP

Functions in the PIP menu

In the PIP menu, you can set the PIP type (small picture or split screen) and the position of the small picture.

`MENU` Call the PIP menu (PIP must be active, green bar/frame)
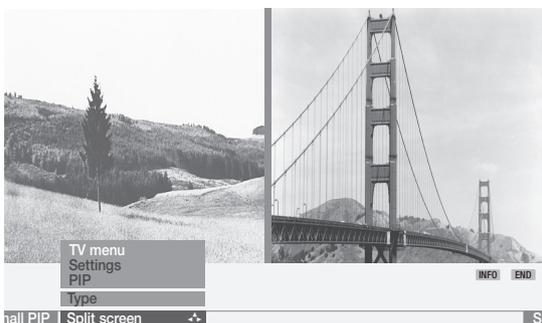
Setting the PIP type

You can have the PIP picture displayed as a small PIP or split screen.

Switch to small PIP:

  Select "Type" and then "Small PIP"

For the small PIP, you will see a coloured frame around the PIP picture.

Position of the PIP picture

  Move the PIP picture with the arrow keys to a corner of the TV picture. In this case, the frame around the PIP picture has to be green, and there should not be any other displays visible on the screen.

Switch to split screen:

You can have the PIP picture displayed on the right hand side of the screen. Both pictures share the screen in two equal halves. You will see a coloured vertical bar between the pictures.

`MENU` Call the PIP menu (PIP must be active, green frame)

  Select "Type" and then "Split Screen".

EPG - Programme guide

EPG is an electronic programme guide. With this system, you can easily find the programmes that interest you (sorted according to day, time, stations and topics). You can mark programmes and programme recordings.
Depending on whether you are receiving analogue stations by cable/antenna or digital stations, you will have different programme guides.
A wizard is activated the first time you use EPG (not with DVB) which guides you through the necessary settings. Then run the data capture (see next page).

Using the EPG

⬚ ✴ EPG   Switch EPG on/off

	EPG (Electronic Programme Guide)		Fri 10.09./14:14
Date	Fri 10.09.		
Time	now	▸	soon │ 14:00 │ 15:00 │ 16:00 │ 17:0
Stations	all		
Topics	all		

24 Kabel 1	13:20-14:15 Kabel 1	Die Waltons	OK ▸
	13:30-14:15 H3	ARD-Buffet	
	13:55-14:20 Kinderkan	Blaubär & Blöd (37)	
	14:00-14:15 ZDF	heute - in Deutschland	
	14:00-15:00 RTL	Das Strafgericht	
	14:00-15:00 Sat 1	Zwei bei Kallwass	
	14:00-15:00 Pro7	Das Geständnis - Heute s...	
	14:00-14:30 N3	DAS! ab 2	
	14:00-14:20 WDR	Die kleinen Strolche (10)	
	Familienserie - Sturzflug		

TEXT Detail	OK View	▭ Record	END
⏭ Page ↑/↓	0 ... 9 Select time	▭ Select date, ... , topics	MENU

The programme guide menu is divided into two areas: at the top, you can make the settings for the programme list (date, ..., topics); on the bottom, the programme list is displayed. Use the **blue** coloured key to switch between the two areas to make your selections.
All programmes **currently** running are listed initially in the programme list. With the ▼ ▲ buttons, select the programme you want to watch and switch over with the **OK** button.
Brief information is shown below the programme list for some programmes. If more detailed information is available, you can call it using the **TEXT** button.
Use **P+/P–** to scroll up or down through the pages of the programme guide. In the selection lines for date and time above, you will see the time change when scrolling; when you scroll further, the date also changes. When the "Time" line is selected, you can enter the time as of which the programmes are to be displayed; use the numeric buttons on your remote control to do this. Always enter four digits, such as 0900 for 9 a.m.
If programmes are displayed which have not yet started, you can mark these with the **OK** button. The TV set then switches automatically to this station at the given time.

When receiving digital terrestrial and digital satellite stations, you may find that two identical EPG data are displayed in the "EPG (DVB)" menu for one station. If you call the EPG menu in the EPG mode by using the **MENU** button, then select "Station selection," you can select the duplicate station and deactivate it by using **OK**).
You have direct access to the selection lines above to pre-select the day, the time, the station and the topic.

⬚ **Blue** coloured key: Call Select date/time/stations/topics

	EPG (Electronic Programme Guide)		Fri 10.09./14:14
Date	Sat 11.09.	✧	Sun 12.09. │ Mon 13.09.
Time	06:00		
Stations	all		
Topics	all		

24 Kabel 1	06:00-06:20 ZDF	Die Blobs	
	06:00-06:30 RTL	Wunderbare Jahre	
	06:00-06:25 Kabel 1	Dennis	
	06:00-06:25 N3	Extra en español (5)	
	06:00-06:30 BR	Goal. Speak English, Play Football	
	06:00-06:30 WDR	Lokalzeit Südwestfalen	
	06:00-07:10 SuperRTL	Infomercials	
	06:00-07:10 Kinderkan	Reif für die Dodo-Insel (25)	
	14:00-14:20 9LIVE	Reisetraum	
	Comedyserie - Kandidaten mit gewissen Fehlern		

		END
	▭ Change to programme list	MENU

Use ▼ ▲ to select the menu line for the date, time, stations or topics. Use ◀ ▶ to select within the menu line.
If, for example, you are looking for the next news, select today's date, "Soon" under Time, "All" under Stations and "News" under Topics.
Then you get a list of all news programmes in the programme list below.

	EPG (Electronic Programme Guide)		Fri 10.09./14:14
Date	Fri 10.09.		
Time	soon		
Stations	all		
Topics	News	✧	Show │ Hobby│ Sport │ Child │ Kn

24 Kabel 1	15:00-15:15 Das Erste	Tagesschau um drei
	15:00-15:05 hr-fernse	hessen aktuell
	15:15-15:15 ZDF	heute - Sport
	16:00-16:05 SÜDWEST	Baden-Württemberg Aktuell
	16:00-16:15 Das Erste	Tagesschau um vier
	Nachrichten - News	

		END
	▭ Change to programme list	MENU

If you want to mark one of these news programmes, return to the programme list using the **blue** coloured key, select the desired news programme by using ▼ ▲ and mark this by using **OK**.

Operating modes – EPG

In front of the programme's title, the system places an ✓ . This station is switched later to this programme when the set is switched on. If the TV is off, it switches on again automatically at the beginning of the marked programme if this has been set in the EPG menu. If you are out, a security prompt prevents the TV set staying on unattended.

Before leaving the upper selection lines using the **blue** coloured key, select a specific line. If you have switched back to the programme list, you can change this menu line using ◀ ▶ without having to leave the programme list.

Programming recording for recorders

The programme marked using the ▼ ▲ buttons can be prepared for recording by pressing the **red** coloured key. In the following menu, confirm the timer data or change them as required. Then, a red dot is set in front of this programme in the EPG programme list as an identification (if timer data is being transferred to the recorder, no red dot is set). If you select this programme, you can delete it from the timer using the red coloured key (if the timer data has been transferred to a recorder, the timer has to be deleted there).

EPG menu

| MENU | Call EPG menu |

```
EPG menu                                    INFO   END
Select provider   ⊕ ◀ ▶ | Station select | Timer list | Data capture | Switc
```

You will find the following settings in the EPG menu:
• Select provider   • Station selection   • Timer list   • Data capture
• Switch on TV when marked

Selecting providers and stations

If you want to change the provider for analogue TV reception (the station which transmits EPG data) to have other stations evaluated, you can do this under "Select provider".

Select "Select provider" and call this menu using **OK**. If the station you want to switch to is not listed in the "Select provider" list, then use the **yellow** coloured key to start the automatic search for stations with EPG data. This takes a while.

Or, if you know the station that transmits EPG data, press the **blue** coloured key to compile manually. Select the provider in the station list and adopt it by using **OK** and return to the provider selection using ◀◀ .

Select the provider in "Select provider" and adopt it using **OK**. Then a station list search is performed. The stations offered by the provider are displayed in a list.

If you want certain stations to be omitted from the programme guide, you can select and deactivate these via **Station selection**. Call the station selection by using the **blue** coloured key.

First, all stations are marked with the ✓ symbol so that their data is displayed in the programme guide (precondition: provided EPG data is broadcast for the respective station). Stations indicated by E are analogue terrestrial/cable stations, stations indicated by T are DVB-T stations, stations indicated by C are DVB-C stations and stations indicated by S are DVB-S stations. These stations are available for evaluation in the programme guide.

Select the stations you want to omit from the programme guide one after another and deactivate each one by using **OK**. The ✓ symbol is removed.

Data capture

After these settings or after each time the set is switched off using the mains switch, the data must first be collected, before switching on the set.

To do this, select the station you have defined as a provider and leave the TV set switched on for about one hour or switch the set to the standby mode. After about two minutes in standby mode, the orange indicator on the set lights up (for Spheros R 37, both indicators light up). The data capture begins and lasts about 1 hour. When data acquisition is terminated, the indicator turns red again. The data are also automatically captured between 2 a.m. and 5 a.m. when the TV is switched to standby.

A prerequisite for data capture is that "Data capture" is "on" (for DVB + analogue) in the EPG menu.

Note: If the TV set is switched off using the mains switch or the mains plug is pulled out, all EPG data are lost.

If, for example, you cannot receive any analogue EPG providers or if you only use DVB, you should set the data capture to "on (only for DVB)".

Switch on TV when marked

You can have the TV switched on automatically from standby at the beginning of the marked programme. If you are not present at the time, a safety prompt makes sure the TV switches off again after 5 minutes.

Analogue Teletext

Teletext transmits information such as news, weather, sports, programme previews and subtitles.

TEXT   Teletext on/off

Many stations use the TOP operating system, some use FLOF (e.g. CNN). Your TV supports both these systems. The pages are divided into topic groups and topics. After switching on the teletext, up to 3,000 pages are stored for fast access.

Page selection with the coloured keys

The coloured bars (in TOP) or the coloured writing (in FLOF) in the next to the last line show you which coloured keys you can use to scroll to topic groups and topics.

Red: back to the previously seen page (not in FLOF)

Green: on to the next page (not in FLOF)

Yellow: to the next topic (only in TOP and FLOF)

Blue: to the next topic group (only in TOP and FLOF)

Other page selection options:

Select one page number specified on the page by using ▼ ▲ (**Page Catching**)
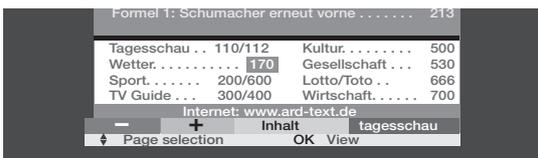
call.

In **Multiple pages** scroll using ◀ ▶ . You can see which multiples pages can be called in the bottom menu line.

INFO   Call **contents page** 100

OK   Call the **TOP table**
The TOP table is a general list of teletext. You can only call the table for stations that use the TOP operating system.
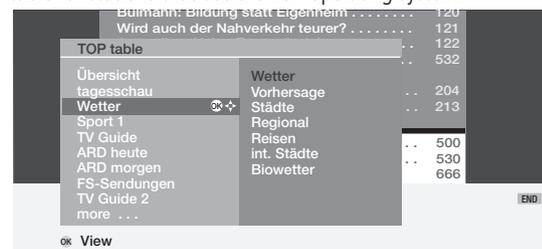
Use ▼ ▲ to select the topic group.
Select the topic column using ▶ .
Select the topic with ▼ ▲ and display page with **OK**.

1 2 7 pqrs   **Enter the page number directly**

Displaying teletext pages

0 AV   Stop self-turning pages (HOLD)

9 wxyz   Zoom page: top part - bottom part - normal size (press button several times)

PIP   TV picture on/off (**Split Text**)

Programme timer recordings

A video and/or DVD recorder must be connected and logged in in the connection wizard. Call the programme pages of the current station in teletext mode using the Direct recording button ⬤. Scroll to the teletext page in which the programme to be recorded is listed if necessary. Select the programme you want to record by with ▼ ▲ and confirm with the **OK** button. For "Timer data," select the VCR or DVD recorder and whether you want to record once or a series of times. Confirm with **OK**.

Teletext menu

MENU   Display teletext menu

```
        100  100   ARD-Text      10.09.04    14:14:42
                   ARD TEXT                     Index
                   Teletext im Ersten          > 101

        Bulmahn: Bildung statt Eigenheim . . . . . . . .   120
        Wird auch der Nahverkehr teurer? . . . . . . . .   121
        Australien: Keine Zugeständnisse  . . . . . . . .   122
        Tote bei Zugunglück in Schweden . . . . . . . .   532

        Tennis: Haas unterliegt Hewitt . . . . . . . . . . .   204
        Formel 1: Schumacher erneut vorne . . . . . . .   213


        Tagesschau . .  110/112      Kultur. . . . . . . . .   500

                                                    INFO   END

            Menu
  ...rding | Settings                       Newsflash | Reveal | R...
            Personal text pages        ...
```

Here you will find functions such as

- "Newsflash", this is an on-screen display of the latest messages (e.g. page 111).
- "Reveal" concealed information, e.g. VPS pages in the station preview pages.
- Programme wizard for recording via teletext.

In the settings, you will find menus to define the station preview pages, subtitle pages and personal text pages, and menus to set the character set selection as well as HiText graphics.

Digital teletext operation (only for MHEG-5 device versions)

In the GB, the teletext for DVB-T stations is transmitted as per the MHEG-5 standard (standard of the Multimedia and Hypermedia Expert Group). It contains text, graphics, functions and links.

The operation of these menus depends on the particular provider. Normally after a station is changed, the provider broadcasting the digital teletext makes an introductory offer for this service on the screen via menu selection. Follow these notes.

If no message appears telling you how to switch to digital teletext after switching to another station, press the **TEXT** key. If a selection for DVB subtitles is available, this item must be hidden before.

```
        CHIEF'S ANALYSIS                    15:10 / 09:23




                                      Investigator Profiles
                                    ⇕ Chief's Analysis
        BLACKWATER TV  REACT  INVESTIGATORS  CASE FILE
        Use the colour keys for other options      BBC①
```
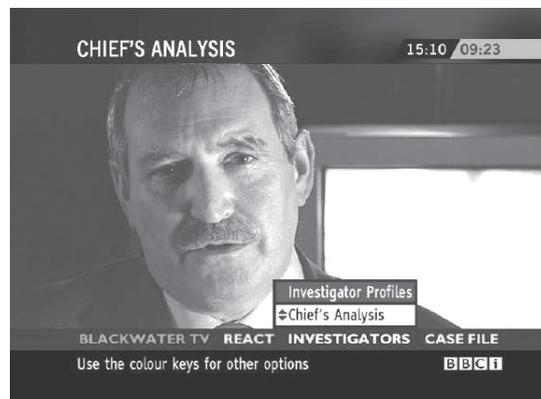
Depending on the provider's respective offer, you can use the ▼ ▲ ◄ ► buttons and the **OK** button, the **coloured keys**, the **END/TEXT** button and sometimes even the **numeric buttons**.

If you want to close the digital teletext, just select a different station using the **P+/P–** buttons or follow the menu prompts on the screen.

Note:
- Digital teletext is not available when DVB-subtitles are being displayed.
- If a timer recording is programmed at the TV-set, at the start time of the recording the digital teletext mode is switched off automatically.

Operating modes – Radio

Radio

Radio stations can only be received via DVB. If you do not have any DVB radio reception, you can play a sound signal from an external device using the TV set via the sound/AV inputs.

RADIO

Use the **RADIO** button on the remote control or the **R** on the control ring of the TV set to switch the radio on or off.

Radio:	8 DLF			Numerical	
	AUDIO IN		9	HR-INFO	S
	AVS		10	MDR INFO	S
	AV2		11	MDR FIGA	S
	AV1		12	NDR KULT	S
1	B5 AKTL	S	13	SWR1	S
2	BAYERN 1	S	14	SWR2	S
3	BR4 KLSK	S	15	WDR3	S
4	SUNSHINE	S	16	WDR5	S
5	ROCK ANT	S	17	OESTER 1	S
6	ANTENNE	S	18	MDR JUMP	S
7	DLR	S	19	JAZZ RAD	S
8	DLF	S	20	BLUSAT20	S

18:00 - 18:10   Nachrichten

OK	Switch to ...		Scan stations	END
0 ... 9	Select station		Previous station	MENU
	Screen off/on		Change sorting	EPG
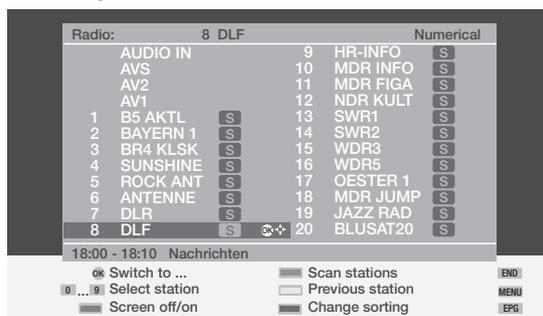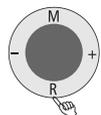
You can see a station list of the radio stations or with DVB-T in GB the station logo. In this case you can call up the station list by using the **OK** or **INFO** key. Station list is sorted by LCN.

You can see a station list of the radio stations. Digital DVB-T stations are indicated by T, DVB-C stations by C and DVB-S stations by S. Encrypted stations are additionally indicated by ⊶. Ask your specialist dealer about decoders or the use of a CA module and a smart card for the reception of encrypted stations.

When time and title are sent by the marked station these data are displayed at the bottom of the station list.

When the station list is shown you can switch off the screen with the **red** coloured key. The LED indicator on the set changes from green to orange or if both the green and red indicators light up, then, for Spheros R 37. You can switch the screen display back on by using the **OK** key, **red** or **blue** coloured keys, by using **RADIO, MENU** or **END** on the remote control or by using **R** on the control ring of the TV set.

Station switching with dark screen: by using **–** or **+** on the control ring of the TV set or by using the remote control **P–** and **P+** or by using the numeric buttons (for DVB-T operation in GB, the buttons may be configured differently by the provider).

The sound menu can be called in the radio mode using the 🔊 button.

Radio menu

MENU   Call radio menu

Radio menu				INFO	END
Sound	⌐⌐	Stations	Timer functions		
Treble	....				

In the radio menu, as in TV mode, you can set the sound, search for radio stations and store them (automatically or manually – not with DVB-T mode in GB), delete stations from the list, rearrange them or change names and set the switching off and alarm functions.

EPG - Programme guide

For the DVB radio stations, you can also use the programme guide if the station currently active supplies data.

✱ EPG   EPG- Call Programme guide

Operating additional equipment

Login and connect equipment

You have logged in and connected all connected equipment in the initial start-up. If you want to connect other equipment or disconnect equipment, call the connection wizard.

MENU	Call up the TV menu
(OK)	Select "Connections"
(OK)	Select the submenu line
(OK)	Select "New devices/modifications" and ...
OK	Call with OK.

State what equipment you want to connect. State whether a piece of audio equipment is to be connected (more details as of page 35). The connection wizard then shows you which sockets you should connect this equipment to. Then connect the equipment to these sockets according to the connection diagram.

Connecting video/DVD recorders

In addition to the connection via the Euro-AV sockets, you also have to connect the antenna (only for terrestrial antenna or cable systems) through the VCR/DVD recorder to the TV set. The antenna signal is then available to the video/DVD recorder and the TV set.

Note: Use Euro-AV cables with right-angled plugs as shown.
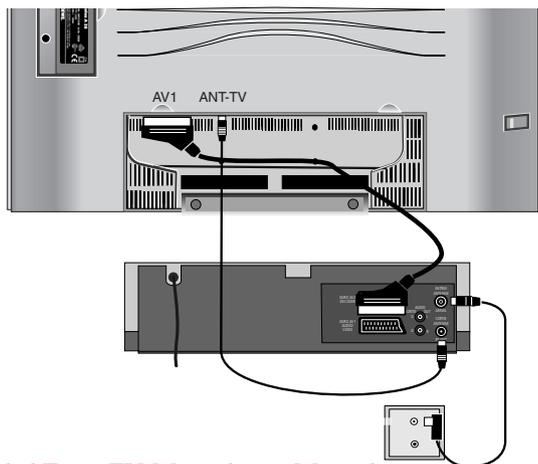
Search for and store the station of the video recorder (if no Euro-AV cable is available)

Switch on the test station on the VCR or insert a recorded tape and start play-back. In some video recorders the station must be switched on by activating the modulator.

Then call the AV selection on the TV set with **0 AV**. Select the menu item "VIDEO" in the AV selection and call using **OK**.
To prevent "normal" TV stations being found in the search, pull out the antenna plug from the antenna input of the VCR temporarily (the cable to the antenna system).
If you cannot see the test station or playback from the cassette, the VCR is transmitting on a different channel. You then have to search for the station or set it manually.

1. Call the TV menu with the **MENU** button.
2. Select the "Settings" menu item with ◀ ▶ .
3. Select the line below using ▼ and use ◀ ▶ to select "Stations".
4. Select the line below using ▼ and select "Manual adjustment" using ◀ ▶ and call this menu using **OK**.
5. Enter channel "E30" under the "Channel" menu item ("Antenna/cable (analogue)", select in this menu above if necessary).
6. Start search with the **blue** coloured key.
7. When the station has been found, change the name if needed, confirm with **OK** and save with the **red** coloured key.
8. A list of the stored stations is displayed.
9. Select 0 (VIDEO) here and overwrite this station storage location using the **red** coloured key.
10. Hide the menu again using the **END** button.

Plug the antenna plug back in.

If you now get interference because a TV station is transmitting on the same channel as the VCR station, you have to change the transmitting station on the VCR and search for the VCR station on the TV again.

Operating additional equipment

Video playback

There are several ways to see the picture and hear the sound of the VCR, DVD player/recorder or camcorder on your TV:

1. You can usually use the Euro-AV sockets on the TV set and on the VCR. For camcorders or digital cameras, use the AVS sockets on the right of the TV set. DVD players/recorders and SetTopBoxes may have HDMI or component sockets for video and audio transmission. In this case, use the corresponding sockets on the TV set.
    When playing back from a video recorder using Euro-AV socket and Digital Link Plus (or a comparable system from another manufacturer), the picture from the VCR is shown at the current channel location.
    When playing back from another VCR, camcorder or digital camera, use the AV selection `0 AV` or the station list (**OK**) to select the AV socket/the device to which the VCR is connected.
    Video recorders transmit a switching voltage during playback, which the TV can evaluate (can be activated in the connection wizard or in the "TV menu – Connections – Miscellaneous – Allow switching voltage" - set to "yes"). Then the picture of the video recorder is shown during playback at the current station location.

2. You can use the antenna connection between the VCR and the TV without a Euro-AV socket. The sound is only transmitted in mono. Select the first menu item, e.g. VIDEO, in the AV selection.

Calling AV inputs in the AV selection:

`0 AV`   Call AV selection

AV selection						
VIDEO	VCR ⊙••	DVD	AVS	VGA	HDMI/DVI	COMP. IN

(OK)   Select AV device/socket (or VIDEO if the video recorder has been connected only via the antenna socket) and use ...

(OK)   to call.

Now you will see the playback from the connected AV device.

Calling AV input via the station list

Call the station list with the **OK** button in TV mode.
In the numeric and alphabetical sorting, you will always find the AV sockets at the top of the list.

Timer recording with video or DVD recorder

You can programme timer recordings on the TV set. Programming can be done with the EPG programme guide (not with DVB-T in GB), teletext or manually. Call the "Timer list" menu with the ⊙ button and press the **red** coloured key for the "Recording wizard". Select whether you want to programme the recording via EPG, teletext or manually. You also have the option to programme recordings directly from the EPG programme guide or teletext.
Note: Copy-protected programmes are not output to the Euro-AV sockets for legal reasons.
When you have connected the Euro-AV socket to a recorder which has **Digital Link Plus** or a comparable system from a different manufacturer, the timer data of analogue terrestrial stations are transmitted from the TV to the recorder. The recording quality SQ or EQ is transmitted for DVD recorders, in additional to the station, date and time. The recording is then controlled by the recorder and the recorder tuner is used for reception of the station. The recording data are not saved in the timer list of the TV set. You will only find the timer data in the recorder.

If you want to record from digital stations, the TV tuner is used and the recorder is controlled by the TV set. Then the station is locked during the timer recording.

If you have connected a Loewe video recorder with **Digital Link** to the Euro-AV socket (without Digital Link Plus) and you are using the timer programming of the TV, the TV receiver is always used, for terrestrial stations as well. The TV controls the recording.
You have to set the recorder to the AV input (signal source) to which the TV set is connected.
Then the station on the TV set is locked during the timer recording.
Digital Link must be switched on on the recorder. Read the operating instructions of your Loewe recorder for more information.
Use only Euro-AV cables, which are completely wired, otherwise Digital Link/ Digital Link Plus will not work.
Another advantage of Digital Link is that you can install the recorder in a concealed place (e.g. in a rack). You can control the recorder with the TV set.
If you have a Loewe recorder with both systems, you can use all the advantages.
The advantages of Digital Link Plus are used for the timer recording; the advantages of Digital Link for concealed installation of the recorder.

Operating additional equipment

Assignment of digital audio inputs and outputs

Audio input "AUDIO DIGITAL IN"

The TV set has a coaxial digital audio input "AUDIO DIGITAL IN" and a coaxial digital audio output "AUDIO DIGITAL OUT". If you are using an external digital surround amplifier for sound reproduction, you have to feed digital audio signals to the TV, e.g. from the DVD player.
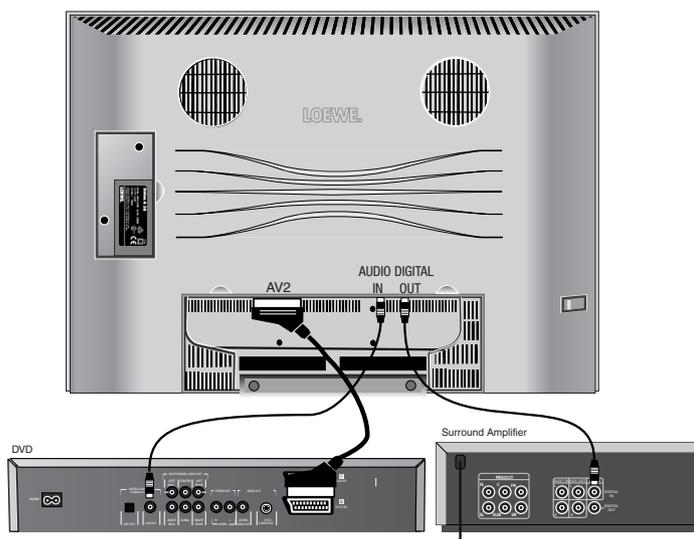
Connect the output socket of the DVD player (DIG OUT) to the TV's "AUDIO DIGITAL IN" socket with a cinch cable.
In the connection wizard, specify that audio transmission is to be digital. Specify that the digital sound is to be assigned for example to the Euro-AV socket 2 to feed the digital sound to the digital audio output of the TV set and via this to the external audio amplifier. Further information about this can be found on page 36.

Audio output "AUDIO DIGITAL OUT"

The digital audio signal is applied at the "AUDIO DIGITAL OUT" socket of the TV. For example, you can connect an external digital audio amplifier or the Loewe Auro system here.

An analogue audio signal from the TV set or another sound source which is received at one of the Euro-AV sockets of the TV set is converted into a digital signal (PCM) and output at the "AUDIO DIGITAL OUT" socket. Conversion from external analogue AV sources to PCM is not possible if the TV's loudspeakers are used as a centre channel. In this case, connect your audio amplifier additionally to the TV (AUDIO OUT L/R) with a cinch cable and switch the audio amplifier to analogue audio input.

The digital TV sound or the digital sound of a connected auxiliary device is only audible via an external digital audio amplifier (e.g. Loewe Auro system).

Operating additional equipment

Connecting Loewe DVD Preceiver Auro 2216 PS and Individual Sound loudspeaker system

You can play audio signals from the TV or DVD player in cinema quality with these components. The Individual Sound system includes 5 speakers for the front, centre and surround reproduction in addition to the subwoofer illustrated below. The centre signal can be reproduced alternatively by the TV speakers. Connect the cubic socket on the DVD Preceiver to the "Master" cubic socket on the subwoofer. Use the cubic plug cable enclosed with the DVD Preceiver. Plug the white plug (without kink protection) into the cubic socket on the subwoofer. For TV as a centre loudspeaker, connect "AUDIO IN C" on the TV set to "PRE OUT C"on the DVD Preceiver using a cinch cable.

Connect the digital audio output of the TV set "AUDIO DIGITAL OUT" to the "DIGITAL IN" input of the Preceiver using a cinch cable. Connect the TV socket "SERVICE" to the TV-L-Link socket on the Preceiver using the L-Link cable (provided with the Preceiver). Switch on the TV set and the Preceiver. Via the L-Link, the TV recognises whether the Preceiver is connected.
Select the "Tremo" loudspeaker system in the DVD menu of the Preceiver, set the listener/speaker distances and adjust the speaker levels. Please consult the Preceiver manual.
If you want to listen to the sound via the TV speakers temporarily, call the Sound menu, select "Sound via" and then "TV". If you want to listen to the sound via the Loewe Auro system, select "AURO" under "Sound via".

35 - GB
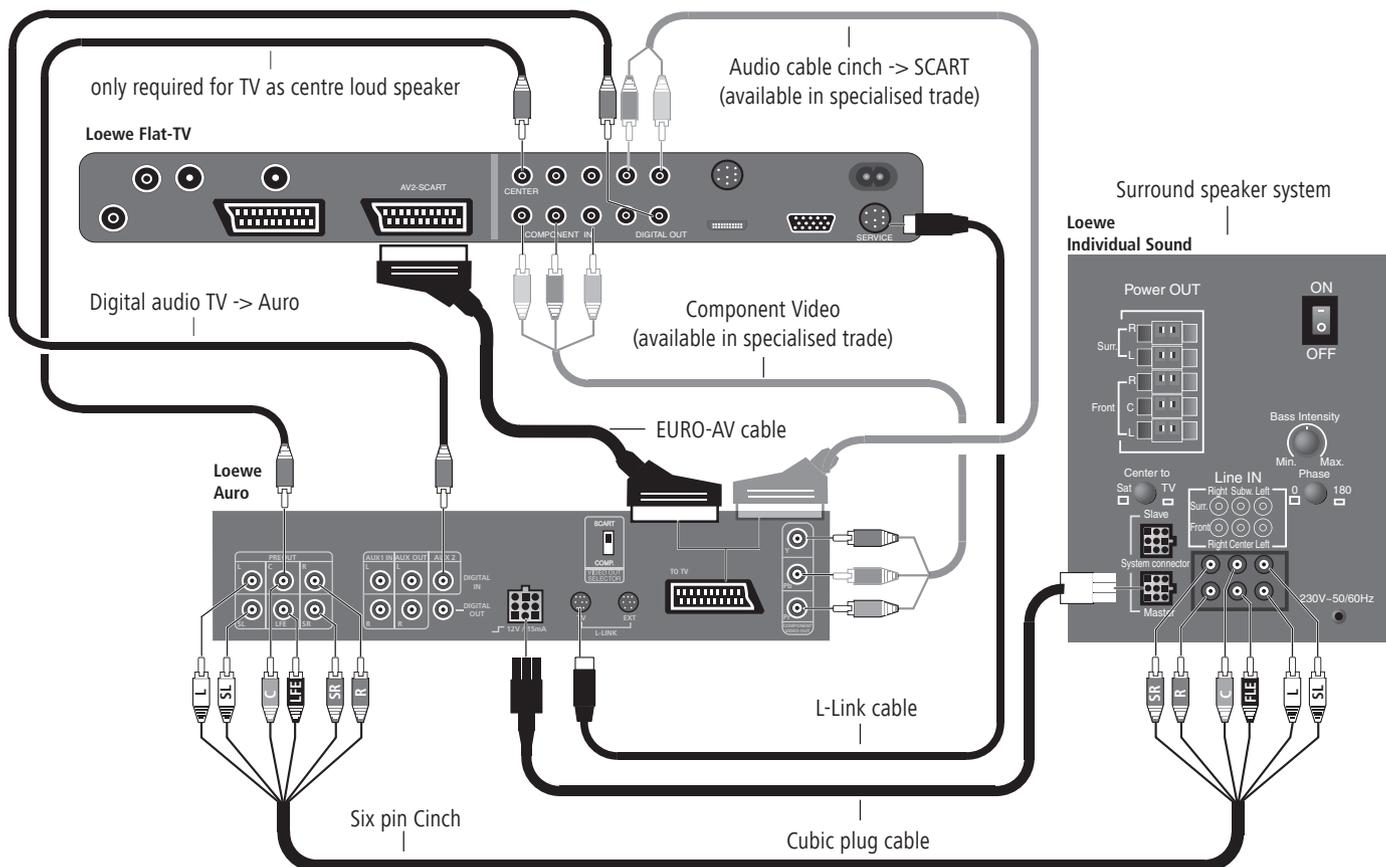
Operating additional equipment

Connecting other audio amplifiers or active speakers

In the connection wizard, select "**HiFi/AV amplifier**" under "Equipment selection: audio component". The connection wizard allows configuration of different audio amplifiers (stereo amplifiers, surround amplifiers, analogue or digital) with different sound formats (Dolby Digital, dts, MPEG and Stereo/PCM). Refer to the operating instructions for the audio amplifier to be connected.

Select "Digital" under "Audio transmission" for **digital audio amplifiers**. Connect the digital audio output of the TV AUDIO DIGITAL OUT to the digital audio input of the digital amplifier.

Assign the digital audio input to the socket through which the corresponding picture is transmitted (e.g. AV2 if a DVD player is connected there). Then the digital sound is passed to the digital audio output of the TV set and fed to the external audio amplifier via this.

Specify which sound formats can be decoded with your digital amplifier (Dolby Digital, MPEG, dts).

Specify under "Type of amplifier" whether the digital amplifier is a stereo or surround amplifier.

If it is a surround amplifier, specify whether or not the TV loudspeakers are to be used as centre loudspeakers. Connect the centre output of the amplifier to the centre output of the TV using a cinch cable, if necessary.
Note: do not use the centre loudspeaker connection on the amplifier; instead use the pre-amplifier centre output.
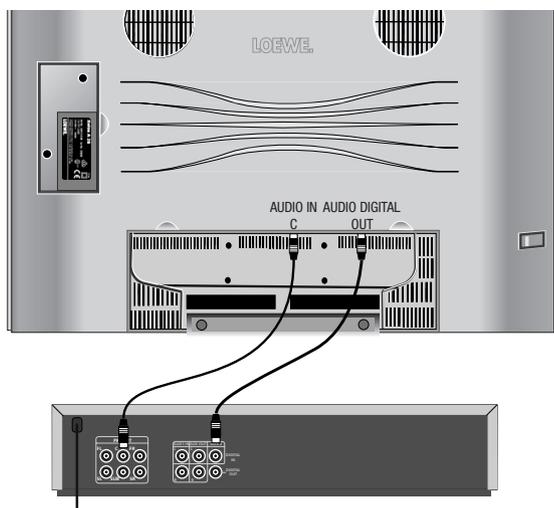
Select "Analogue" for "Sound transmission" for **analogue audio amplifiers**. The sound for the analogue amplifier is transmitted via the AUDIO OUT L/R connections of the TV to the audio amplifier. Connect the amplifier with two cinch cables.
Specify under "Type of amplifier" whether the analogue amplifier is a stereo or surround amplifier.
If it is a surround amplifier, also specify whether or not the TV speakers are to be used as centre loudspeakers. Connect the centre output of the amplifier to the centre output of the TV using a cinch cable, if necessary.

Note: do not use the centre loudspeaker connection on the amplifier; instead use the pre-amplifier centre output.
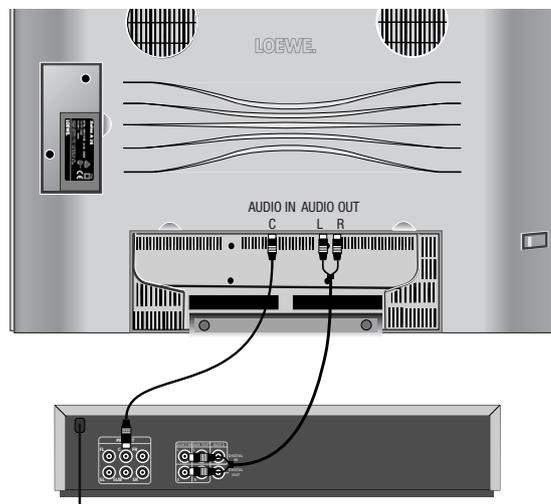
If you want to listen to the sound via the TV loudspeakers temporarily, call the Sound menu using the [⊲] button, select "Sound via" and then "TV".

When connecting **active speakers**, select "Active speakers" in the connection wizard under "Audio equipment selection". The sound for the active speakers is transmitted via the AUDIO OUT L/R connections to the active speakers. Make connections to the active speakers using the cinch cables.
Make the audio settings on the TV set when active speakers are connected. When using an external audio amplifier, make the audio settings on the audio amplifier.

Operating additional equipment

HDMI (DVI) connection

HD ready

The HDMI connection (High Definition Multimedia Interface) allows digital picture and sound transmission via a connecting cable, e.g. from Loewe DVD Recorder Centros 2102/2172 HD. The digital picture and sound data are transmitted without data compression and therefore lose none of their quality. In the equipment connected, no analogue/digital conversion is necessary, which might also have lead to losses in quality.

DVI signals can be also be reproduced by the HDMI connection using a DVI/HDMI adapter cable. This is possible because HDMI is based on DVI and is downwardly compatible. That means that the digital video signals are transmitted via HDMI - no audio signals are transmitted, though. In addition, both use the same copy protection method HDCP.

Connect the set with an HDMI connection using an HDMI cable (type A, 19-pin) to the HDMI socket of the TV set. Log in the HDMI connection in the connection wizard (TV menu - Connections - New devices/modifications).

Select the HDMI connection in the AV selection.

| 0 AV | | Call AV selection |

> AV selection
> VGA | HDMI/DVI | ⊗ ← → | COMP. IN | VIDEO | VCR | DVD | AVS |

| OK | | Select HDMI/DVI socket and use ... |

| OK | | to call. |

Start playback on the device connected with HDMI connection.
The set automatically recognises and sets the best possible format for the video. If transmission occurs via a DVI/HDMI adapter cable, then you can feed in the appropriate analogue audio via the audio input sockets AUDIO IN L/R on the TV set. The sound is reproduced via the TV speakers.
If you have connected a digital external audio amplifier, you can select the digital audio signal in the connection wizard (TV menu - Connections - New devices/modifications) and assign it to the HDMI/DVI socket. You can make the other settings for the audio amplifier as described for digital amplifiers on page 36. The digital audio signal of the DVI audio source is fed in at the AUDIO DIGITAL IN socket on the TV. Feed the digital audio signal from the TV AUDIO DIGITAL OUT to the external amplifier.

Set geometry: as described for the VGA/XGA connection.

VGA/XGA connection

HD ready

You can connect a PC or a Set Top Box (STB) and therefore use the TV screen as an output device.
Connect the PC/STB to the VGA/XGA socket on the TV using a VGA cable.

When connecting to a PC, first set one of the following screen resolutions on your PC.
800x600 60Hz (SVGA)
1024x768 60Hz (XGA).
When a Set Top Box is connected, set the following screen resolutions according to the options of the Set Top Box:
SDTV: 720x576i (PAL), 720x480i (NTSC),
720x576p, 720x480p.
HDTV: 1280x720p, 1920x1080i.

Select the VGA/XGA connection in the AV selection.

| 0 AV | | Call AV selection |

> AV selection
> | AVS | VGA | ⊗ ← → | HDMI/DVI | COMP. IN | VIDEO | VCR | DVD |

| OK | | Select VGA socket and use ... |

| OK | | to call. |

Start the connected device.

Set geometry

Call the TV menu using the **MENU** button, select "Geometry" using ◄ ► and set:
If the picture is not positioned correctly, you can move the picture horizontally and vertically here so that it fills the whole screen. You can also set the phase position so that the picture appears in the best possible quality.

Setting colour standard

Call the Picture menu using the ▭ button. Select "Colour standard" using ◄ ► and make your selection.
The colour standard for a connected PC is RGB.
In Set Top Boxes, you usually set Ycc as a colour standard. Other formats such as Ypp or RGB can also be output. Please consult the operating instructions of the device connected.
If the wrong standard is selected, you will recognise this by the wrong colours in the display.

Operating additional equipment

Sound from PC or Set Top Box

Feed the analogue audio signal from the PC or the STB to the sockets AUDIO IN L/R on the TV via a cinch cable. The sound is reproduced via the TV speakers. If you have connected a digital external audio amplifier, you can select the digital audio signal in the connection wizard (TV menu - Connections - New devices/modifications) and assign it to the VGA/XGA socket. You can make the other settings for the audio amplifier as described for digital amplifiers on page 36. The digital audio signal of the Set Top Box is fed in at the AUDIO DIGITAL IN socket on the TV. Feed the digital audio signal from the TV AUDIO DIGITAL OUT to the amplifier.

Component video connection

HD ready

If you have a DVD player/recorder with Component OUT connections, you can connect it to the SD/HD-COMPONENT IN sockets of the TV instead of to the Euro-AV sockets. The connecting cable with three cinch plugs each transmits picture information. The playback is of a better quality than via the Euro-AV socket.

You need another cinch cable for the analogue sound transmission. Connect the analogue audio outputs of the DVD player to the AUDIO IN L/R sockets on the TV set. The sound is reproduced via the TV speakers.

If you want to use the digital sound of the DVD player with a digital audio amplifier connected to the TV, make a connection between AUDIO DIG OUT of the DVD player and AUDIO DIGITAL IN of the TV set.

Log in the component/device in the connection wizard:

Assign the AUDIO DIG IN input here to the COMP. IN socket, provided a digital audio amplifier is also connected. You can make the other settings for the audio amplifier as described for digital amplifiers on page 36.

Set the signal at the component input in the connection wizard: Set to "Automatic" first. If the signal is not reproduced when playback is started, consult the operating instructions of the DVD device connected to find out what screen resolution is possible (SDTV, HDTV or ProScan).

Select the component connection in the AV selection.

0 AV   Call AV selection

AV selection							
MI/DVI	COMP. IN			VIDEO	VCR	DVD	AVS	VGA	HDMI/DV

Select COMP. IN sockets and use ...

OK   to call.

Start playback on the connected device.

Set geometry and colour standard: as described for the VGA/XGA connection.

Operating additional equipment

Operating other Loewe devices with the RC3 remote control

Using this remote control, you can operate additional devices from Loewe.

Use the rotary switch to select VCR, TV or a Set Top Box. The following are preset at the factory: Loewe VCRs, Loewe TV sets and for STBs (Set Top Box) in Germany, the common d-box.
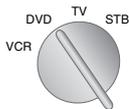
Use the driver buttons in the TV and STB position for VCR, DVD or Digital Recorder

You can switch over the six drive buttons
(◄◄ , ► , ►► , ● , ❚❚ , ■), both for the TV and for the STB, to control a VCR or DVD player/recorder (the control of the integrated "Digital Recorder Plus" is preset at the factory):

First set the switch to the main function TV or STB.
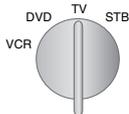
Then press the **END** and ★**EPG** buttons simultaneously for at least 5 seconds. The upper left indicator on the remote control will blink twice.

Enter the the numbers 988 in sequence. The indicator will again blink two times.

Now set the switch to the desired function for the drive buttons:
to DVD, VCR or to TV, if the digital recorder is to be operated.
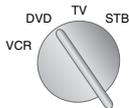
Press the **# PIP** button to complete the setting. The indicator will blink two times.

Setting the remote control to operate devices from other manufacturers

You can switch over the remote control for other VCRs, DVD players and Set Top Boxes if the infrared code for the device type is listed in the code list or if it is included in the code memory of the RC3.
Even if the manufacturer of the device is listed in the code list, it may not be possible to operate that device using the Loewe remote control.

Setting the remote control using code entry

Search for the code number for your device in the code list (see as of pages 49-53). The list is arranged according to device type – DVD, VCR, STB – and alphabetically according to manufacturer. Next to the manufacturer's name, you will find one or more code numbers.
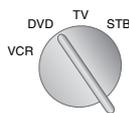
Use the rotary switch if you want to switch over a VCR, DVD device or a Set Top Box.

Press the **END** and ★**EPG** buttons simultaneously for at least 5 seconds. The upper left indicator on the remote control will blink twice.

Enter the four numbers in sequence that you found in the code list (e.g. 0539 for Loewe DVD player).

After each number you enter, the indicator will blink once, after the last number it will blink twice. If the number was incorrect, the indicator will remain lit longer. The code number was not accepted. If the code was accepted with two blinks, you can test the functions of the device you just programmed.
If the device cannot be operated or can only be operated poorly, repeat the code entry with the next code from the list. If there are no other codes specified for this manufacturer, try it using the code suggestions from the remote control.

Setting the remote control using the suggestions from the remote control

Switch the device **on** that you want to switch over to the remote control. Standby mode is not enough.
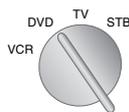
Use the rotary switch if you want to switch over a VCR, DVD device or a Set Top Box.

Press the **END** and ★**EPG** buttons simultaneously for at least 5 seconds. The upper left indicator on the remote control will blink twice.

Enter the the numbers 991 in sequence. The indicator will blink once after each number entered.

Press the **# PIP** button to select the first code.

Point the remote control toward the device you want to switch over to the remote control. Observe that device.

Now press the button ► (Play) or **On/Off** on the remote control.
Wait a moment for the device to react. If the device does not react, then that was not the right code. Press the **# PIP** button again to call the next code.

Press the button ► (Play) or **On/Off** again.

If the device reacts, press the ★**EPG** button to adopt the code.

Operating additional equipment

Using the RC3 remote control to operate a DVD recorders or DVD player
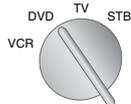
Set the rotary switch to "DVD".

The infrared code and the functions are preset at the factory for the Loewe DVD recorder Centros 21x2 HD.

In the DVD mode, it is possible to operate the Loewe DVD recorders Centros 1102, 1172, 2102HD, 2172HD, and the DVD players Xemix 6122DO, 8122DA and 6222PS.

Using the RC3 remote control to operate a VCR

Set the rotary switch to "VCR".

The infrared code and the functions for a Loewe VCR are preset at the factory.

In VCR mode, the following VCRs can be operated: ViewVision 8106H, 8136H, 8176H, 6306H, 6336H, 6376H, 6396H, 4306H, 4376H, 2102M, 2302M, 4206, 4236, 4276.
For other Loewe equipment than that listed, please use the original remote control.

Functions for the Loewe DVD recorders (Centros 1102, 1172, 2102, 2172)

Change-over switch for operation of TV, VCR, DVD or Set Top Box

Sound off/on

Set marker / in menu: highlights title/chapter

Select camera position

Timer recording menu / timer recording list menu on

Call AV selection (AV1-AV4,DV,TV)

Main menu on

User interface of loaded DVD on /in menu: switch between original and playlist

Status display (TV, DVD-RW) /in menu: cofirm the menu selection in menu: select / adjust

ShowView menu on

Insert a new chapter marker

Press short during playback: Start of current chapter /previous chapter
Press short during pause: slow motion back
Press long during playback: search back

Record

Playback

Pause /single frame

Switch DVD player on/off – in standby

Marker search menu on

Repeat

Zoom

in menu: enter digits / in stop mode (menu off): select programme (TV)

Picture in picture (PIP) on/off

Close menu

Info / menu bar on/off

Next chapter / in stop mode (menu off): next programme

V–/V+ volume quieter/louder

Start of current chapter / previous chapter /in stop mode (menu off): previous programme

Audio/Foto Card Reader operation on/off

Enter a new title thumbnail / switch between photo and MP3/WMA operation

Press short during playback: next chapter

Press short during pause: slow motion forward

Press long during playback: search forward

Stop

Functions for Loewe VCR (VV 8106, 8136, 8176)

Change-over switch for operating of TV, VCR, DVD or Set Top Box

Sound off/on (mute)

Display/close Timer list

Display/close ShowView timer Menu

Switch to Long Play /Standard Play

Call AV selection (TV)

VCR menu on /in menu: back

P+/P– Select station up/down

Reverse play /in menu: select/set

V–/V+ volume quieter/louder

▲ / ▼
at stop: Program up/down on playback: manual tracking in the menu: Select position

Rewind /search backwards

Start recording

Pause (still frame) /frame-by-frame advance

Switch recorder on/off – in standby

Select picture and sound sour

Select video and audio input

Set time display to 0:00:00

Select station directly /in menu: enter digits

Set picture format (TV)

Status display on/off in the menu: Close menu

Status display on/off

on playback: Slow motion forward /in the menu: select/set or to the next menu

Call up station list /in menu: call up/confirm

Fast forward /search forwards

Start playback

Stop tape

GB - 40

Operating additional equipment

Rotating the TV set for Spheros R 32/37

Spheros R 32/37 have a connection for a rotating stand control.
If the TV set is mounted on a motor unit, you can use the remote control to adjust it to your seating location accordingly.

Rotate the TV set when no menu or PIP is being displayed.

Note: Make sure there are no objects in the TV's area of rotation that might obstruct the rotation or be knocked down due to the rotating motion.

Setting the range of rotation (basic adjustment)

Here you can determine the range of rotation maximum +/- 40 degrees) of the TV set by adjusting the maximum right and left stop.

MENU   Call up the TV menu.

> TV menu   INFO   END
> Picture   -·- | Sound | Recording | Connections | Settings
> Picture adjustment   ...

Select "Settings" with ◀ ▶ .

> TV menu   INFO   END
> ...ections | Settings   -·-   Picture | Sound | Recording | Conne...
> Stations   ...

Select the menu line below with ▼ and select "Miscellaneous" with ◀ ▶ .

> TV menu
> Settings   INFO   END
> ...guage | Miscellaneous   -·· | Channels | Parental lock | Timer functions | Lan...
> On-screen displays   ...

Select the menu line below with ▼ and select "Rotate TV" with ◀ ▶ .

> TV menu
> Settings
> Miscellaneous   INFO   END
> Rotate TV   -·· | On-screen displays | Time and date | D...
> Activate switch-off position   ...

Select the menu line below with ▼ and select "Basic adjustment" with ◀ ▶ ...

> TV menu
> Settings
> Miscellaneous
> Rotate TV   END
> ...osition | Basic adjustment   OK -·· | Activate switch-off position | Set switch...

... and confirm with **OK**.

> Rotate TV
> Basic adjustment   ◀◀   END
> 24 ▭▭▭▭▭ ◀▸
> OK Proceed

Turn your TV with ▶ as far to the right as the location of the set allows. This will be the maximum right hand position in future.

Confirm with **OK**.

> Rotate TV
> Basic adjustment   ◀◀   END
> -31 ▭▭▭ ◀▸
> OK End of basic adjustment

Turn your TV with ◀ as far to the left as the location of the set allows. This will be the maximum left hand position in future.

End the basic adjustment with **OK**.

END   Close the menu.

Setting the position of the TV set when switched off

You can set the position the TV set is to assume once it is switched off (switch-off position must be activated for this):

Call the menu item "Activate switch-off position" in the TV menu – Settings – Miscellaneous – Rotate TV.
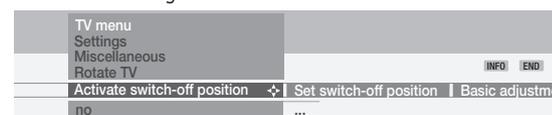
> TV menu
> Settings
> Miscellaneous
> Rotate TV   INFO   END
> Activate switch-off position   -·· | Set switch-off position | Basic adjustme...
> no   ...

Move down with ▼ and select "yes" with ◀ ▶ .
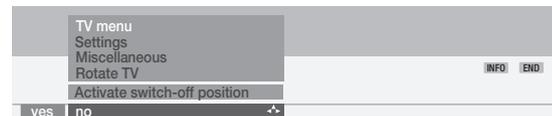
> TV menu
> Settings
> Miscellaneous
> Rotate TV   INFO   END
> Activate switch-off position
> yes | no   -··

Move up with ▲ and select "Set switch-off position" with ◀ ▶ .

> TV menu
> Settings
> Miscellaneous
> Rotate TV   INFO   END
> ...osition | Set switch-off position   OK -·· | Basic adjustment | Activate switch...
> 0

use **OK** to go down and use the ◀ ▶ arrow buttons to set the desired switch-off position. The TV set rotates in the process.

> TV menu
> Settings
> Miscellaneous
> Rotate TV   INFO   END
> Set switch-off position
> 0 ▭▭▭▭▭ -··
> OK Adopt

use **OK** to save the position set.

END   Close the menu.

If the TV set is switched off using the blue on/off button on the remote control or by using the indicator field on the set (Spheros R26/32), the set will rotate to the position defined.
When it is switched back on, it returns to the position last set manually.

What to do, if ...

Problem	Possible cause	Remedy
The "Recording" menu point is not displayed in the TV menu.	No video or DVD recorder logged in.	Log in the video or DVD recorder in the connection wizard and connect the device.
"Connections" cannot be called in the TV menu (deactivated).	A time recording is in progress.	Wait until the timer recording has ended or delete the timer.
The control of the Loewe video recorder and the timer do not work or do not work properly.	a) The Digital Link function is not activated or not possible in the recorder. b) Euro-AV cable is not connected. c) Recorder is not logged in.	a) Activate Digital Link in the recorder (see operating instructions of the video recorder). b) Connect the Euro-AV cable. c) Log in recorder.
General problems with connecting external equipment via an AV input.	a) The device is not logged in to the connection wizard or is connected differently than is shown in the connection diagram. b) The AV norm is set incorrectly. c) The AV signal is set incorrectly.	a) In the connection wizard (TV menu – Connections – New devices/modifications), compare the connection diagram with the actual installation and connect as shown, if necessary. b) Set the norm correctly. c) Set the AV signal correctly. If "Automatic" is set for AV norm or AV signal, this can lead to errors for signals which do not conform to the norm. Then the norm and the signal are to be set according to the specifications in the operating instructions of the external device.
A decoder connection does not function or is faulty.	a) The signal is not decoded because the wrong decoder stations are selected in the connection wizard. b) The sound is missing in decoder mode because the wrong decoder sound is assigned in the connection wizard.	a) Follow the instructions in the connection wizard again (TV menu – Connections – New devices/ modifications) and select the corresponding decoder station. b) Follow the instructions in the connection wizard again and select the right audio source (decoder, TV or autom.), see instructions of the decoder.
All menus appear in the wrong language.	Menu language has been set incorrectly.	Set your menu language: Press the **INFO** button in TV mode (index). Select the first index item and call it by using **OK**. Then select the language and confirm with **OK**.

What to do, if ...

Problem	Possible cause	Remedy
Digital Link Plus does not function.	a) Euro-AV cable is not fully wired (pin 10 not wired). b) Some recorders can only adopt stations during the initial installation of the TV set. c) All or some of the terrestrial and cable stations are stored on station storage locations ≥ 99.	a) Replace the Euro-AV cable. b) Restore the recorder to the as-delivered state (see recorder's operating instructions). c) Rearrange the terrestrial and cable stations so that they fall between 1 and 99.
Various characters are displayed incorrectly in the teletext.	The wrong character set is set in the teletext menu.	Set the right character set: Teletext menu - Settings - Character set: standard or the appropriate character set.
No sound via external digital audio amplifier.	a) The external digital audio amplifier does not support the selected sound format (Dolby Digital, dts, MPEG). b) TV set and external digital audio amplifier are not connected.	a) Set PCM stereo on the DVD player in the sound selection. For DVB stations, switch language/sound selection (**green** coloured key) to Stereo on the TV set in the status display (**END**). b) Connect Digital-Out from the TV set to a Digital-In of the external digital audio amplifier and select the appropriate input to this.
Device on mounted motor unit does not rotate (only Spheros R 32/37).	Motor unit and connection for rotating stand control are not connected to each other.	Use related cable to connect socket of motor unit to interface of rotating stand control (see assembly instructions for motor unit).
Dirt on the inside of the front panel.	---	The front panel may only be removed and cleaned by your dealer.

Technical data

General data

Type	Spheros R 26	Spheros R 32	Spheros R 37
Item no.	65435xxx	65436xxx	65437xxx
Versions DVB-T CI (MHEG-5) Versions DVB-T/C CI Versions DR+ DVB-T CI (MHEG-5) Versions DR+ DVB-T/C CI	● ● – –	● ● ● ●	● ● ● ●
Set dimensions without stand (ca. cm WxHxD) Dimensions with stand (ca. cm WxHxD)	68,4x50,7x10,8 68,4x56,1x35,0	84,5x58,5x9,0 84,5x64,0x40,0	99,0x67,5x9,0 99,0x71,6x40,0
Set weight without stand (ca. kg) Set weight with stand (ca. kg)	18,5 20,5	34,5 36,5	37,0 39,0
Display Picture diagonal (cm)/picture format Resolution Contrast ratio	HD-LCD technology 66/16:9 1366x768 800:1	HD-LCD technology 80/16:9 1366x768 800:1	HD-LCD technology 94/16:9 1366x768 800:1
Angle of viewing horizontally/vertically	170°	170°	170°
Power consumption (IEC 62087) in operation (watt) in standby (watt)	70 < 3	85/100 < 3	100/115 < 3
Ambient temperature (Celsius)	5° − 35°		
Relative humidity (not condensing)	20 − 80%		
Barometric pressure	800 − 1114 hPa (0 − 2000 m over NN)		

✂ The code number 3001 cancels out a secret code and with it the child lock. Please keep in a safe place.

Technical data

Electrical data

Chassis name	L 2650
Power supply	220 V -240V/50- 60 Hz
Tuner VHF/UHF/ cable	
Hyperband 8 MHz	41 MHz to 860 MHz
Station storage locations	1680
TV standards	B/G, I, L, D/K, M, N
	DVB-T, DVB-C*, DVB-S*
Colour standard	SECAM, PAL, NTSC,
	NTSC-V, PAL-V (60Hz)
Sound standard	Mono/Stereo/Dual-channel
	Nicam B/G, I, L,
	Virtual Dolby
Rated audio power	2 x 20 watt
Analogue Teletext	TOP/FLOF Level 2.5
Page Memory	3000
Digital Teletext (only for MHEG-5 device versions)	MHEG-5

Connections

Jack 3.5mm		Headphones 32- 2000 ohm
Mini-DIN (AVS)	Video IN	Y/C (S-VHS/Hi 8)
		CVBS (VHS/8 mm)
Cinch (yellow)	Video IN	CVBS (VHS/8 mm)
Cinch (white/red) Audio IN		L/R
IEC socket 75 Ohm/5 V/80 mA		Antenna/cable/analogue PIP (1 /DVB-T/C
F socket 75 Ohm 13/18 V/350 mA (1		ANT-SAT
EURO-AV 1	Video IN	Y/C (S-VHS/Hi 8)
		CVBS (VHS/8 mm)
	Video OUT	CVBS (VHS/8 mm)
		Y/C (S-VHS/Hi 8)
	Audio IN	L/R
	Audio OUT	L/R
EURO-AV 2	Video IN	Y/C (S-VHS/Hi 8)
		CVBS (VHS/8 mm)
		RGB, YUV
	Video OUT	CVBS
		Y/C, (only with SVHS Link Plus)
	Audio IN	L/R
	Audio OUT	L/R
Cinch	Audio IN max. 2Vrms	Centre
2 x Cinch	Audio IN	L/R
2 x Cinch	Audio OUT (level adjustable in active loud speakers)	L/R
Cinch	COMPONENT IN:	Cb/Pb signal
Cinch	COMPONENT IN:	Cr/Pr signal
Cinch	COMPONENT IN:	Y signal
Cinch	Digital Audio IN (SPDIF)	Digital audio
Cinch	Digital Audio OUT (SPDIF)	Digital audio
HDMI/DVI	Digital Video/Audio IN type A 19pin	Digital video and audio
VGA/XGA	VGA/XGA IN	PC/STB video signal
Mini-DIN	SERVICE	Service/L-Link
Mini-DIN	CONTROL	Rotating stand control

(1 Set-specific equipment and retrofitting options for PIP and satellite tuners, see pages 46 and 47.

Accessories

Wall holders and stands

Refer to the notes on the installations options on page 8.

PIP tuner

The PIP tuner enables picture in picture displays (PIP) for analogue terrestrial and cable reception.
You can retrofit either this PIP tuner or a digital satellite tuner. The PIP function is possible with both retrofit versions.
You can find the retrofitting options for your set in the table on the next page.
Loewe order no. 89442.080

Digital Satellite tuner

You can have your TV set retrofitted with the digital satellite tuner.
By using this tuner, you can receive DVB-S stations.
The digital satellite tuner is completely integrated in the TV set (physically and logically) and is operated by the remote control/menu control of the TV.
When you retrofit your TV set with the digital satellite tuner, your TV set automatically has the PIP function.
You can retrofit either this digital satellite tuner or a PIP tuner.
You can find the retrofitting options for your set in the table on the next page.
Loewe order no. 89361.055

Digital Twin Satellite tuner

If your TV set is equipped with the Digital Recorder+, you can have it retrofitted with an integrated DVB-S twin sat tuner.
The integrated PIP DVB-T/C tuner is exchanged for the DVB-S twin sat tuner.
You can find the retrofitting options for your set in the table on the next page.
Loewe order no. 89443.080

VESA adapter

The VESA adapter offers you the possibility of also using your TV set for other VESA-compatible fastening devices.
Loewe order no. 89725.B00

Loewe DVD players and recorders

The DVD players and recorders from Loewe are characterised by form and colour, which match Loewe TV sets, adapted user guidance and technology. A combination of the two devices forms a system which offers many advantages.

Loewe audio system Auro and the active speaker system Individual Sound

The interplay of a Loewe TV with a Loewe audio system and a Loewe speaker system creates an excellently coordinated home cinema system. Advantages are high operating comfort, attractive design and adapted technology.

Subject to delivery options.

Accessories

Retrofitting options

The following table shows the equipment and retrofitting options for the individual device versions.

Device version / Equipment	Item no.	PIP tuner [1]	Digital Single SAT-Tuner [2]	Digital Twin SAT-Tuner [3]
Spheros R 26 DVB-T/C CI	65435xxx	–	○	–
Spheros R 26 DVB-T CI	65435xxx (MHEG-5)	–	–	–
Spheros R 32 DVB-T/C CI	65436xxx	●	○	–
Spheros R 32 DVB-T CI	65436xxx (MHEG-5)	–	–	–
Spheros R 32 DR+ DVB-T/C CI	65436xxx	●	○	○
Spheros R 32 DR+ DVB-T CI	65436xxx (MHEG-5)	●	–	–
Spheros R 37 DVB-T/C CI	65437xxx	●	○	–
Spheros R 37 DVB-T CI	65437xxx (MHEG-5)	–	–	–
Spheros R 37 DR+ DVB-T/C CI	65437xxx	●	○	○
Spheros R 37 DR+ DVB-T CI	66437xxx (MHEG-5)	●	–	–

● available / installed
○ retrofittable / optionally available
– retrofitting not possible

[1] You can retrofit either this PIP tuner or a digital satellite tuner.
[2] You can retrofit either this digital satellite tuner or a PIP tuner.
[3] The integrated PIP tuner is exchanged for the Twin Sat tuner.

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Codelist RC3 / Lista de códigos RC3

Loewe

DVD-Player	0539
DVD-Recorder Centros 11x2	0741
DVD-Recorder Centros 21x2	1463
STB	1127
VCR	0866

DVD

3DLAB					0539
A-Trend					0714
Acoustic Solutions					0730
AEG				0788	0770
Aiwa				0641	0695
Akai	0790	0788	0690	0716	0713 0705
AKI					0718
Akira					0699
Alba	0717	0699	0713	0723	0695
All-Tel					0790
Amitech					0770
Amstrad					0713
Apex Digital					0672
Audiosonic					0690
AWA					0730
Black Diamond					0713
Blaupunkt					0717
Blue Sky	0699	0695	0713	0672	0651
Boman					0783
Brain Wave					0770
Brandt				0651	0551
Bush		0699	0690	0689	0717
		0713	0818	0695	0831 0723
C-Tech					0768
Cambridge Audio					0696
Cambridge Soundworks					0696
CAT					0699
Celestial					0672
Centrex				0672	1004
Centrum					0713
cineULTRA					0699
Classic					0730
Clatronic					0788
Clayton					0713
Coby					0730
Conia					0672
Crown			0770	0651	0690
Cybercom					0831
CyberHome				0714	0816
Cytron			0716	0651	0705
Daewoo			0770	0705	0714
Daewoo International					0699
Dansai				0770	0783
Dantax					0723

DEC				0699	0818
Decca					0770
Denon				0490	0634
Denver				0699	0788
Denzel					0665
Diamond		0651	0768		0723
Digihome					0713
digiRED					0717
Digitrex					0672
DiK					0831
Dinamic					0788
DiViDo					0705
DK digital					0831
DMTECH				0783	0790
Dragon					0831
Dual	0665	0651	0713	0730	
			0783	0790	0831
E-Boda					0723
Eclipse					0723
Electrohome					0770
Elin					0770
Elta		0690	0770	0788	0790
Emerson				0591	0705
Enzer					0665
Ferguson					0651
Finlux		0741	0770		0783
Firstline					0651
Funai					0695
GE					0717
Global Solutions					0768
Global Sphere					0768
Go Video					0783
GoldStar				0591	0741
Goodmans	0651	1004	0790	0690	
			0783	0723	0818
Graetz					0665
Grandin					0716
Grundig	0539	0695	0651	0775	
	0705	0790	0713	0670	0723
Grunkel					0770
H&B				0818	0713
Haaz					0768
Hanseatic					0741
HCM					0788
HDT					0705
HE					0730
Henß					0713
Hitachi		0664	0665		0573
Hiteker					0672
Home Electronics					0730
Hyundai					0783
Ingelen					0788
ISP					0695
Jeken					0699
JMB					0695
JVC	0623	0539	0503	1901	1940
Karcher					0783

Kendo					0699
Kenwood			0534	0490	0737
Kiiro				0718	0770
Kingavon					0818
Kiss					0665
Koda					0818
Koss					0651
Lawson			0705	0716	0768
Lecson					0696
Lenco	0699	0651	0770		0818
Lenoxx					0690
Lexia					0699
LG		0591	0741		1906
Lifetec					0651
Limit				0716	0768
Loewe				0539	1922
LogicLab					0768
Logix				0705	0783
Lumatron					0705
Luxman					0573
Luxor					1004
Magnavox				0503	0818
Magnex					0723
Manhattan					0705
Marantz					0539
Mark					0713
Matsui				0651	0695
MBO				0690	0730
MDS					0699
Medion	0651	0783	0716		0831
Memorex					0831
Metz				0571	0713
MiCO					0723
Microboss					0718
Micromaxx					0695
Micromedia				0503	0539
Micromega					0539
Microsoft					0522
Microstar					0831
Minax					0713
Minoka					0770
Mitsubishi					0713
Mizuda					0818
Monyka					0665
Mustek					0730
Mx Onda				0651	0723
NAD					0741
Naiko					0770
Neufunk					0665
Nordmende					0831
Omni				0690	0699
Onkyo				0627	0503
Optimus					0571
Orava					0818
Orion					0695
Oritron					0651
P&B					0818

Pacific	0768	0790	0713		0831
Palladium					0695
Palsonic				0689	0672
Panasonic				0490	1908
Panda					0783
Philips	0539	0646	0503		1914
Phonotrend					0699
Pioneer	0571	0631	1900		1902
Pointer					0770
Powerpoint					0718
Proline	0651	0672	0790		1004
Proscan					0522
Prosonic					0699
Provision					0699
Radionette					0741
Raite					0665
Rank Arena					0718
RCA				0522	0651
REC				0689	0490
Red Star				0770	0788
Reoc					0768
Revoy					0699
Roadstar	0699	0690	0689	0713	0818
Rotel					0623
Rowa					1004
Saba					0651
Sabaki					0768
Salora					0741
Samsung				0573	0490
Sansui	0695	0716	0768	0723	0770
Sanyo			0670	0695	0790
Scan					0705
ScanMagic					0730
Schaub Lorenz				0788	0770
Schneider	0651	0783	0705	0790	0788
Scientific Labs					0768
Scott				0718	0651 0672
SEG				0665	0713 0768
Shanghai					0672
Sharp				0630	0695
Sherwood			0717	0741	0633
Shinco					0717
Silva					0788
SilvaSchneider					0831
Singer			0690	0716	0723
Skymaster				0730	0768
Slim Art					0770
SM Electronic			0730	0768	0690
Smart			0718	0705	0713
Sonashi					0716
Sony	0533	0573	1903		1904
Soundmaster					0768
Soundmax					0768
Soundwave					0783
Standard				0651	0768
Starmedia					0818
Sunwood					0788

Brand	Codes
Supervision	0730 0768
SVA	0672
Synn	0768
Tandberg	0713
Tatung	0770
Teac	0717 0741 0571 0768 0591 0790
Technics	0490 1908
Technika	0770
Techwood	0713
Tensai	0690 0651
Tevion	0651 0768
Theta Digital	0571
Thomson	0551 0522
Tokai	0665 0788
Tokiwa	0705 0716
Toshiba	0503
Umax	0690
United	0788 0730 0790
Universum	0741 0713 0591
Venturer	0790
Vieta	0705
Voxson	0730 0831
Walkvision	0717
Welkin	0831
Wesder	0699
Wharfedale	0696 0723
Windy Sam	0573
XBox	0522
XLogic	0770 0768
XMS	0788 0689
Yamada	1004
Yamaha	0490 0539 0646
Yamakawa	0665 0710 0765
Yelo	0718
Yukai	0730
Zenith	0503 0591 0741

VCR

Brand	Codes
Adyson	0072
Aiwa	0307 0000 0209 0348 0352 0037 0041
Akai	0106 0315 0041 0352 0240
Akashi	0072
Akiba	0072
Akura	0072 0041
Alba	0278 0072 0209 0352 0000 0315 0348 0081
Allorgan	0240
Allstar	0081
Amstrad	0000 0278 0072
Anitech	0072
Ansonic	0000
Aristona	0081
ASA	0037 0081
Asuka	0072 0037 0081 0000 0038
Audiosonic	0278
AVP	0352 0000
AWA	0037 0278 0642 0043
Baird	0106 0278 0104 0041 0000
Basic Line	0278 0209 0072
Bestar	0278
Black Diamond	0642 0278
Black Panther	0278
Blaupunkt	1562 0226 0081
Blue Sky	0037 0209 0348 0072 0352 0278 0000
Bondstec	0072
Brandt	0041 0320
Brandt Electronique	0041
Brinkmann	0209 0348
Bush	0072 0278 0315 0209 0352 0000 0348 0081
Carena	0209 0081
Carrefour	0045
Casio	0000
Cathay	0278
CGE	0041 0000
Cimline	0072 0209
Clatronic	0072 0000
Combitech	0352
Condor	0278
Crown	0278 0072
Cyrus	0081
Daewoo	0278 0642 0209 0348 0352 0045
Dansai	0072 0278
Daytron	0278
de Graaf	0042 0081 0104 0048
Decca	0000 0041 0081 0067 0348 0209
Deitron	0278
Denko	0072
Diamant	0037
Domland	0209
Dual	0041 0081 0278 0000
Dumont	0000 0081 0104
Elbe	0278 0038
Elcatech	0072
Elin	0240
Elsay	0072
Elta	0072 0278
Emerson	0072 0045 0000
ESC	0278 0240
Etzuko	0072
Fast	0897
Ferguson	0041 0320 0000 0278
Fidelity	0000 0072 0240
Finlandia	0104 0081 0042 0000 0048 0384
Finlux	0000 0081 0104 0042
Firstline	0072 0209 0348 0043 0037 0045 0042 0278
Fisher	0047 0104 0038
Flint	0209
Frontech	0072
Fujitsu	0000
Funai	0000
Galaxi	0000
Galaxis	0278
GE	0320
GEC	0081
General Technic	0348
Genexxa	0104
Goldhand	0072
GoldStar	0037 0000
Goodmans	0000 0072 0240 0278 0037 0081 0348 0209 0352 0642
Graetz	0041 0104 0240
Granada	0104 0048 0081 0240 0037 0226 0042 0000
Grandin	0072 0037 0000 0278 0209
Grundig	0081 0347 0226 0320 0348 0072
Haaz	0348 0209
Hanimex	0352
Hanseatic	0037 0209 0278 0081 0038
Harwood	0072
HCM	0072
Hinari	0072 0209 0352 0041 0278 0240
Hisawa	0209 0352
Hischito	0045
Hitachi	0042 0041 0000 0240 0081 0104 0384
Hornyphone	0081
Hypson	0072 0209 0278 0352
Imperial	0000 0240
Ingersoll	0209 0240
Inno Hit	0240 0278 0072
Interbuy	0037 0072
Interfunk	0081 0104
Internal	0278
International	0278 0037
Intervision	0000 0278 0037 0209 0348
Irradio	0072 0037 0081
ITT	0106 0041 0384 0104 0048
ITT Nokia	0048
ITV	0278 0037
JMB	0209 0352
Joyce	0000
JVC	0041 0067 0384
Kaisui	0072
Kambrook	0037
Karcher	0278
Kendo	0106 0209 0315 0348 0072 0037
Kenwood	0041 0038
KIC	0000
Kimari	0047
Kneissel	0352 0209 0348 0037
Kolster	0209 0348
Korpel	0072
Kuba	0047
Kuba Electronic	0047
Kuwa	0226
Kyoto	0072
Lenco	0278
Leyco	0072
LG	0037 0000 0278 0209 0348
Lifetec	0209 0348
Loewe	0081 1562 0226 0866 0037
Logik	0240 0072 0106 0209
Lumatron	0278
Luxor	0106 0043 0072 0104 0047 0048
Magnavox	0081
Manesth	0072 0045 0081 0209
Marantz	0081 0038 0209
Mark	0278
Matsui	0209 0348 0037 0240 0352 0000
Mediator	0081
Medion	0209 0348 0352
Melectronic	0000 0037 0038
Memorex	0104 0000 0037 0048 0047
Memphis	0072
Metz	1562 0347 0081 0226 0037

Brand	Codes
Micormay	0348
Micromaxx	0209
Migros	0000
Mitsubishi	0043 0067 0081
Multitec	0037
Multitech	0000 0072 0104
Murphy	0000
Myryad	0081
NAD	0104
National	1562 0226
NEC	0041 0038 0067 0104 0037
Neckermann	0041 0081
Nesco	0072 0000 0352
Neufunk	0209
Nikkai	0072 0278
Nokia	0104 0106 0315 0041 0278
	0240 0048 0042 0081
Nordmende	0041 0384 0320 0067
NU-TEC	0209 0348
Oceanic	0000 0048 0106 0081 0104
	0041
Okano	0315 0209 0348 0072 0278
Orbit	0072
Orion	0209 0352 0348
Orson	0000
Osaki	0000 0037 0072
Osume	0072
Otake	0209
Otto Versand	0081
Palladium	0072 0315 0037 0041 0209
	0240 0348 0432
Palsonic	0072 0000
Panasonic	1562 0226
Pathe Cinema	0043
Pathe Marconi	0041
Perdio	0000 0209
Philco	0038 0072
Philips	0081 0384
Phoenix	0278
Phonola	0081
Pioneer	0067 0081 0042
Portland	0278
Prinz	0000
Profitronic	0081 0240
Proline	0000 0320
Prosco	0278
Prosonic	0209 0278 0000
Protech	0081
Provision	0278
Pye	0081
Quasar	0278
Quelle	0081
Radialva	0037 0072 0081 0048
Radiola	0081
Rank	0041
Reoc	0209 0348 0278
Rex	0041 0384

Brand	Codes
RFT	0072
Roadstar	0240 0072 0037 0278
Royal	0072
Saba	0041 0320 0384 0278
Saisho	0209 0348
Salora	0043 0106 0104
Samsung	0240 0432
Sansui	0041 0067 0106 0072 0348
Sanyo	0104 0047 0048 0067
Saville	0352 0278 0240
SBR	0081
Scan Sonic	0240
Schaub Lorenz	0041 0104 0000 0106
	0315
Schneider	0072 0000 0037 0081 0278
	0240 0042 0897
Seaway	0278
SEG	0072 0240 0278 0642 0081
SEI	0081
Sei-Sinudyne	0081
Seleco	0041 0384 0037
Sentra	0072
Setron	0072
Sharp	0048 0037 0569
Shintom	0072 0104
Shivaki	0037
Siemens	0037 0104 0081 0320 0347
Siera	0081
Silva	0037
Silver	0278
Singer	0045
Sinudyne	0081 0209
Smaragd	0348
Sonitron	0047
Sonneclair	0072
Sonoko	0278
Sonolor	0048
Sontec	0037 0278
Sony	0032 0106
Soundwave	0037 0209 0348
Ssangyong	0072
Standard	0278
Starlite	0037 0104
Stern	0278
Sunkai	0209 0348 0278
Sunstar	0000
Suntronic	0000
Sunwood	0072
Supra	0037 0240
Symphonic	0000 0072
T+A	0226
Taisho	0209
Tandberg	0278
Tashiko	0000 0048 0240 0081 0037
Tatung	0000 0041 0081 0048 0043
	0209 0348 0352
Teac	0072 0041 0000 0278 0642

Brand	Codes
	0037 0081 0307
TEC	0278 0072
Tech Line	0072
TechniSat	0348 0209
Teleavia	0041
Telefunken	0041 0320 0384 0278
Teletech	0072 0278 0000
Tenosal	0072
Tensai	0000 0037 0072
Tevion	0348 0209
Thomson	0320 0041 0067 0384 0278
Thorn	0041 0104 0037
Thorn-Ferguson	0320
Tokai	0072 0037 0041 0104
Tokiwa	0072
Topline	0348
Toshiba	0045 0041 0384 0043 0081
Towada	0072
Tredex	0278
Uher	0037 0240
Ultravox	0278
Unitech	0240
United Quick Star	0278
Universum	0000 0081 0240 0037
	0106 0348 0209 0104
Victor	0067
Watson	0081 0352 0278 0642
Weltblick	0037
Yamaha	0041
Yamishi	0072 0278
Yokan	0072
Yoko	0037 0072 0240
ZX	0209

SAT /STB)

Brand	Codes
@sat	1300
ABsat	0668 0123 1323 0710
ADB	0642
Adcom	0200
AGS	0668 0710
Akai	0200
Akena	0668
Alba	0455 0713
Allsat	0200 1017 1043
Alltech	0713
Alpha	0668 0200
Altai	0396
Amitronica	0713
Ampere	0396 0132
Amstrad	0847 0713 0742 0396 0132
	0882 0885 0863 0501 0795 1113
Anglo	0713
Ankaro	0713
AntSat	1017 1083

Brand	Codes
Apollo	0455
Arcon	1205 1043 0834 0132 1075
Armstrong	0200
Asat	0200
ASLF	0713
AssCom	0853
Astacom	0668 0710
Aston	1129
Astra	0607 0713
Astro	0133 0173 0501 0658 0607
	1113 1099 1100 0200
Athena	0668
Atlanta	0871
Aurora	0879
Austar	0863 0642 0497 0879 1176
Avalon	0396
Axiel	0668 0710
Axis	1111 0834
Beko	0455
Bentley Walker	1017
Blaupunkt	0173
Blue Sky	0713 0885
Boca	0132 0713
Boston	0132 0710 0668
Broco	0713
BskyB	0847 1175
BT	0668 0710
Bubu Sat	0713
Cambridge	0501
Canal Satellite	0853
Canal+	0853
Cherokee	0123 0710 1323
Chess	0157 0605 0713 1085
CityCom	1176 0115 0607 0299
Clemens Kamphus	0834 0396
Cobra	0396
Colombia	0668 0132
Columbia	0132
Columbus	0668
Comag	0132
Condor	0607
Connexions	0396
Conrad	0607 0573 0115 0501
Conrad Electronic	0607 0713
Cryptovision	0455 0795
Cyrus	0200
D-box	1127 1114 0723
Daeryung	0396
Daewoo	1296 0713
Delfa	0863
Deltasat	1075
DGTEC	1242
Digatron	1294
Digenius	0299
Digiality	0607
Digipro	1105
DigiQuest	0863

Diskoverer	0605 0157
Diskovery	0668 0710
Diseqc	0710
Distratel	0084 0885 1205
Distrisat	0200
DMT	1075
DNT	0200 0396
DREAM multimedia.TV	1237
DStv	0642 0879
Echostar	0610 1169 0871 0167 0853
	1086 1200 0454 0396 0713
	0668 0511 0453
Einhell	0132 0713 0501
Elap	0713 1129 0668 0710
Elsat	0713
Elta	0200
Emme Esse	0871
Engel	1017 0713
EP Sat	0455
Eurieult	0084 0885 0882
Eurocrypt	0455
Europa	0863 0607 0501 0200
Europhon	0299 0607
Eurosky	0607 0132 0299 0115
	0114 0501
Eurostar	0607 0115
Fenner	0668 0157 0605 0713
Ferguson	0455
Fidelity	0501
Finlandia	0455
Finlux	0573 0455
Flair Mate	0713
Force	1101
Fortec Star	1017 1083
Foxtel	0879 0720 0455 0497
	0795 1176
Fracarro	0871 0668
Freecom	0501 0173
Freesat	0882
FTEmaximal	0713 0863
Fuba	0396 0173 0573 0115 0299
Fugionkyo	1105
Galaxis	1111 1101 0834 0863 1176
0853 0115 0879	
Garnet	1075
GF	0834 1043
GF Star	1043
GOD Digital	0200
Goldbox	0853
Goldvision	1017
Gooding	0571
Goodmans	1284 0455
Gradiente	0887
Granada	0455
Grandin	0084
Grundig	0173 0847 1150 1291 1435

	0571 0750 0879 0885 0853 0501
	1297 1330
Hanseatic	0605 1099 1100
Hänsel & Gretel	0132 0607
Hauppauge	1294
HDT	1011
Heliocom	0607
Helium	0607
Hirschmann	0396 0882 1113 1111
	0173 0573 1085 0299 0501
	0710 0607 0668
Hitachi	0455
HNE	0742 0132
Houston	0668 0396
Humax	1176 0863
Huth	0132 0607 1017 1075
Hyundai	1011 1159 1075
ID Digital	1176 0863
Imex	0084
Ingelen	0396 0882
International	0132
Interstar	1105 1017
Intervision	0628 0607
Invideo	0871
IRTE	0609
Italtel	0871
ITT Nokia	0573 0455 0723
JOK	0710
JVC	0571
K-SAT	0713
Kamm	0713
Kaon	1300
KaTelco	1111
Kathrein	0658 0249 1057 0173
	1221 0200 0713 0668 0742
	0123 0115 1323 0710
Kathrein Eurostar	0115
Kiton	0114
Klap	0668 0710
Konig	0607
Koscom	0834 1043
Kreiling	0658 0249 0114
Kreiselmeyer	0173
Kyostar	0132
L&S Electronic	1043
Labgear	1296
LaSAT	0607 0115 0132 0157 0299
Lenco	0713 0115 0607
Lenson	0501
Lexus	0200
LG	1075
Lifesat	0605 0299 1043 0713
Logix	1017 1075
Lorenzen	0299 1294 0607 0742 0132
Luxor	0573 0501
M&B1	0605
Manata	0710 0668 0713

Manhattan	1083 0455 0710 0668
	0834 1017
Marantz	0200
Maspro	0750 0713 0173 0571
Matsui	0571 0710 0173
Max	0607
MB	0605
Mediabox	0853
Mediacom	1206
MediaSat	0501 0853
Medion	0713 0299 1043
Medison	0713
Mega	0200
Metronic	0713 1215 0084 0885 1205
Metz	0173
Micro	0607 0501 0713
Micro electronic	0713
Micro Technology	0713
Micromaxx	0299
Microtec	0713
Minerva	0571
Mitsubishi	0455
Morgan's	0200 0713 0132
Motorola	0856
Multichoice	0642 0879
Multitec	0157
Myryad	0200
Mysat	0713
Netgem	1322
Neuhaus	0501 0713 0834 0607
Neusat	0713 0834
Nikko	0713 0723 0200
Nokia	1023 1114 0751 1127 0723
	0853 0573 1223 0455 1723
	1310 1312
Nordmende	0455
Nova	0879
OctalTV	1294
Okano	0668
OnDigital	0751 0329 0241 0867 0133
Optex	0834
Optus	0879 0853
Orbitech	1099 1100 0200 0501 0157
Origo	0497
Ouralis	1205
Oxford	0668
Pace	0455 0847 0887 1175 0241
	0867 0123 1323 0791 0795
	0720 0497 0200 0853 0710 1423
Packsat	0710
Palcom	0299
Palladium	0571 0501
Palsat	0501
Panasat	0879 0615
Panasonic	0847 1104 0455 1320
Panda	0455 0607 0173 0834
Patriot	0668

Philips	0200 1114 0853 0455 0750
	0710 0668 0571 0173 0133 1336
Phonotrend	0863 1017 1200
Pioneer	0329 0853 0352
Planet	0871 0396
Polytron	0396
Praxis	0511
Preisner	0132 0396 1101 1113
Premiere	0853 1114 1127 0723 1111
	1176 1195 1100 0249 0658 1435
Primacom	1111
Profile	0668 0710
Promax	0455
Prosat	0628
Prosonic	0742
Pye	0571
Pyxis	0834
Quadral	0628 0668 0710 1323
Quelle	0607 0742 0115
Radiola	0200
Radix	0396 1113 0882
RFT	0200
Roadstar	0713
Rover	0628 0713
Saba	0710 0885 0115 0607
Sabre	0455
Sagem	0820 1114 1253
Samsung	0863 1243 1343 0853 1206
	1017 1293 1292
SAT	0501
Sat Control	1300
Sat Partner	0501
Sat Team	0713
Satcom	0605 0607
Satec	0713 0834
Satline	0628
Satstation	1083
Schneider	0710 0668 0157 1206
Schwaiger	0605 0157 0607 0885
	1111 0132 1075
SCS	0115 0299
Seemann	0396
SEG	0605 0742 0114 1087
Seleco	0871
Septimo	1205 0885
Siemens	0173
Skantin	0713
Skinsat	0501
SKR	0713
Sky	0847 0856 0887 1014
SKY+	1175
Skymaster	0713 0605 0157 1200
	1085 1075 0628
Skymax	0200
SkySat	0157 0605 0713
SL	0132 0742
SM Electronic	0157 0713 1200

Name	Codes
	1075 1085
Smart	0132 0299 1101 0882
	0396 1113 0115 0713
Sony	0282 0847 0853 0455
SR	0132
Starland	0713
Strong	0879 0853 1105 1159 1300
Sunsat	0713
Sunstar	0132
Tantec	0455
Tatung	0455
Teac	1322
Tecatel	1200
TechniSat	0200 1099 1100 1195
	0501 1322
Technosat	1206
Technowelt	0607 0885
Techsan	1017
Techwood	0114
Telasat	0605 0115 0607
Teleciel	1043
Telecom	0713
Telefunken	0710
Teleka	0396 0750 0501 0607 0834
Telesat	0605 0607
Telestar	0501 1099 1100 0114
	0200 0157
Teletech	0114
Televes	0455 0501 0132
Thomson	0455 0713 0853 0115 0607
	12910820 0668 0710 1046
Thorn	0455
Tokai	0200
Tonna	0455 0668 0501 0713 0834
Topfield	1206
Toshiba	0455
TPS	0820 1253
Triasat	0501
Triax	0501 0115 0200 0396 0713
	08530114 1296 1291 0132
Turnsat	0713
Twinner	0132 0713
UEC	0879
Uher	0157
Unisat	0200
Universum	0173 0571 0607 0299
	0115 0742 1087
Van Hunen	0299
Variosat	0173
Ventana	0200
Vestel	0742
VH-Sat	0299
Viasat	1323 1023 0820
Visionic	1105
Visiosat	0710 0713
Wetekom	0157 0605 0501
Wewa	0455
Wisi	0173 0396 0299 0455 0501
	0607 0834
Worldsat	0710 0114 0123 0668
XCOM	0123 0668
XSat	0668 0713 0123
Xtreme	1300
YES	0887
Zehnder	1075 0742 0114 0115 0419
Zenith	0856
Zeta Technology	0200
Zinwell	1176

Cable Box (STB)

Name	Codes
Austar	0276
BT	0003
Canal Plus	0443
Comcrypt	0443
Decsat	0423
Filmnet	0443
France Telecom	0817
General Instruments	0276
Jerrold	0003 0276
Kabelvision	0003
Macab	0817
Melita	0003
MNet	0443
Mr Zapp	0817
Noos	0817
NTL Cabletell	0276
Ono	1068
Optus	0276 1060
Pace	1068 1060
Philips	0817 0286
PVP Stereo Visual	0003
Sagem	0817
Tele+1	0443
Telepiu	0443
Tudi	0286
United Cable	0003
Visiopass	0817